STUDER

A80 RC MK II

ZUSATZ ZU MANUAL A80 RC
ADDITIONAL TO MANUAL A80 RC

A80 RC MK II
ZUSATZ ZU SERVICEANLEITUNG A80 RC

Dieser Zusatz für A80 RC MK II Tonbandmaschinen gilt als Ergänzung zur normalen Serviceanleitung A80 RC. Es ist deshalb nötig beide Bücher vor sich zu haben. Beschreibungen nicht geänderter Baugruppen befinden sich in der normalen Serviceanleitung.

A80 RC MK II
SUPPLEMENTARY SERVICE INSTRUCTIONS A80 RC

These supplementary instructions for the A80 RC MK II magnetic tape machine should be used in conjunction with standard maintenance manual A80 RC. It is thus necessary to have both documents at hand. Unchanged components are described in the standard maintenance manual only.

INHALT **SECTION/SEITE**

CONTENTS **SECTION/PAGE**

1. ÄNDERUNGEN GEGENÜBER DER STANDARDVERSION

Die A80 RC MK II Tonbandmaschine bietet gegenüber der Standardversion folgende Verbesserungen:

- Nahtloses, adressierbares Einsteigen (neuer Oszillator 1.081.984).
- PLAY-Vorwahl während des LOCATE-Suchlaufes
- Der Papierkorbbetrieb ist von der Stellung der rechten Bandzugwaage abhängig und nicht mehr, wie bei der Standardversion, vom Stillstand der Zählerrolle.
- Tastensatz mit Hall-Elementen wie bei der A800
- Trotz Tastensatz mit Hall-Elementen (keine verdrahtete Verriegelung der Tasten untereinander) kann durch Betätigen einer Wickeltaste, während die andere niedergedrückt ist, das Band positioniert werden.
- Die Wickelmotorsteuerung 1.080.385-81 kann für beide Geschwindigkeitsversionen (19/38 cm/s und 38/76 cm/s) verwendet werden. Über einen Brückenstecker (S2) können die Startkreise für die schnelle Version aktiviert werden. Das Umlöten der blauen Litze erübrigt sich.

1. DEVIATIONS FROM STANDARD MODEL

Compared with the standard model, the A80 RC MK II tape machine offers the following advantages:

- Gap-free, addressable drop-in (new oscillator 1.081.984).
- PLAY preselection during LOCATE search run.
- The waste basket mode is dependent on position of the right tape tension sensor in contrast to the standard version, which is dependent on stopping the counting cylinder.
- Command switches are complemented with Hall elements, as in the A800 tape machine.
- Despite the use of Hall elements in the set of command switches (no wired key interlocks), the tape can be positioned by depressing the wind key even when REW key remains depressed.
- The spooling motor control 1.080.385-81 can be used with both speed versions (7.5/15 ips, and 15/30 ips). The starting circuits for the fast version can be activated via a jumper plug without resoldering the blue stranded wire.

1.1 LAUFWERKELEKTRONIK

Spooling Motor Control 1.080.385-81:
Dieser Print enthält neu die Schaltung für den Papierkorbbetrieb. Durch Öffnen der Brücke S1 kann dieser gesperrt werden.
Alle bisherigen Funktionen dieses Prints bleiben erhalten; die übrige Schaltung ist unverändert.

Command Receiver 1.081.393-81:
Um die Funktionen Vor/Rückwickeln mit nur einer Taste (FORW) bei konstant gedrückter Taste (REW) zu ermöglichen, wurde ein zusätzliches Gatter IC 3.6 belegt.
Diese Funktion war vor der Printänderung nur mit dem mechanischen Tastensatz möglich.

In Verbindung mit dem Zerolocator erlaubt eine zusätzliche Schaltung die Funktion PLAY während der Suchlaufphase vorzuwählen.

Neue Signale:

B-ZLOCAT	Pin 3A
B-REPR	Pin 9A

1.1 TAPE TRANSPORT ELECTRONICS

Spooling motor control 1.080.385-81:
This print includes the new circuit for the waste basket mode. It can be disabled by removing jumper S1.
All previously available functions of this print have been retained and the remainder of the circuit design is unchanged.

Command receiver 1.081.393-81:
A gate IC 3.6 has been installed to permit forward and rewind operations by using only the FORW key while the REW key remains constantly depressed.
Without this circuit change this function could only be implemented with the mechanically operated set of keys.
In conjunction with the zero locator, and additional circuit allows preselection of the PLAY function during the loop phase.

New signals:

B-ZLOCAT	Pin 3A
B-REPR	Pin 9A

Command Switches 1.081.265:
Die Funktion des Drucktastenprints bleibt grundsätzlich gleich, mit der Einschränkung, dass die Hall-Elemente gegenüber den mechanischen Schaltern nur Ein/Aus-Schaltfunktionen erlauben (mechanische Schalter sind für Umschaltfunktion ausgelegt). Die erforderliche Umschaltfunktion der Tasten FORW/REW wurde deshalb auf dem Logikprint 1.081.393-81 elektronisch gelöst.

Command switches 1.081.265:
The print controlling the command switches remains basically unaltered, but with the restriction that the Hall elements associated with mechanical switches only permit on/off functions (mechanical switches are designed as selectors). For this reason, the selector functions of the FORW/REW keys have been implemented electronically on circuit board 1.081.393-81.

1.2 AUDIOELEKTRONIK

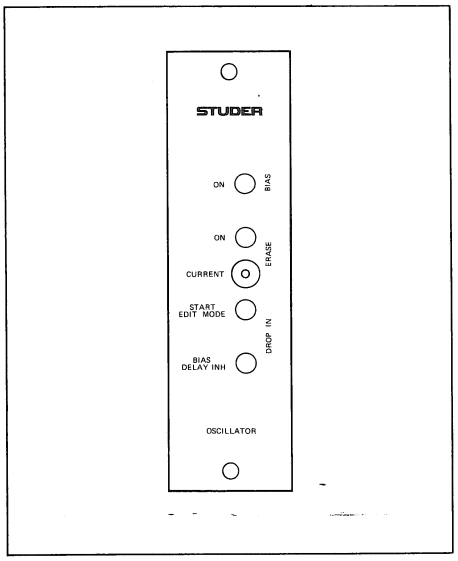
Basis Board 1.081.938-81:
Dieser Basisprint ist in neuere A80 RC Serviceanleitungen bereits integriert. In Kapitel 6 dieses Zusatzes ist ebenfalls ein Schema enthalten.

Oszillator 1.081.984:
Der Oszillator 1.081.984 kann nur in der A80 RC MK II Tonbandmaschine eingesetzt werden. Um zeitgerechtes Ein- und Aussteigen mit Lösch- und Aufnahmekopf (auch bei variabler Geschwindigkeit) zu ermöglichen, werden die Zeitverzögerungen von der Zählerrolle abgeleitet und sind dadurch von der Bandgeschwindigkeit unabhängig.
Verzögertes Einsteigen mit dem Aufnahmekopf kann unterdrückt werden (Jumper auf Position DROP IN BIAS DELAY INHIBIT, LED leuchtet), das Aussteigen bleibt jedoch zeitgerecht.
Adressiertes Einsteigen in START EDIT MODE ist vom Hochlauf der Maschine unabhängig. Die Adresse ist mit einer Genauigkeit von ± 20 ms bei 38 cm/s und ± 30 ms bei 76 cm/s reproduzierbar.

1.2 AUDIO ELECTRONICS

Basic board 1.081.938-81:
This basic circuit board is already implemented in the newer A80 RC service manuals. Chapter 6 of this supplement also includes a circuit diagram.

Oscillator 1.081.984:
The oscillator type 1.081.984 can only be used with the A80 RC MK II machine. For accurate drop-in timing of the erase and record head (even with variable tape speed), all time delays are derived from the counter cylinder and thus independent of the tape speed.
Staggered drop-in of the record head can be suppressed (jumper in position DROP IN BIAS DELAY INHIBIT, LED lights up). Drop-out timing remains unaffected.
The run-up time of the tape transport does not influence the addressed drop-in into START EDIT MODE.
The address is reproducible with an accuracy of ± 20 ms with a tape speed of 15 ips and ± 30 ms at 30 ips.



2. BEDIENUNG

2.1 ANWENDUNG

Der neue Oszillator 1.081.984 erlaubt lückenloses Ein- und Aussteigen in ein bereits bespieltes Band oder nahtloses Anschliessen an eine Aufnahme.
Es sind zwei Anwendungsverfahren möglich:

2.2 STANDARD INSERT

Die Bedienung bleibt im wesentlichen gleich. Der RECORD-Mode wird während der PLAY-Funktion ausgelöst (DROP-IN).
Nach Beenden der Aufnahme wird durch erneutes Eintippen der Funktion PLAY ein knackfreies Aussteigen (DROP-OUT) gewährleistet. Es ist nach wie vor möglich, aus der STOP-Position direkt in RECORD-Betrieb zu gehen (oder umgekehrt). In diesem Fall kann jedoch das Übereinstimmen der Ein- und Aussteigepunkte des Löschens oder Vormagnetisierung (Audio) nicht garantiert werden.

2.3 START EDIT MODE INSERT

Den Einsteigepunkt (DROP-IN) in EDIT-Betrieb suchen und markieren.
Es wird empfohlen, die Bandzugwaagen vor dem Blockieren in EDIT-Betrieb voll aufzuspannen. Dadurch wird möglicher Schlupf (besonders bei 38 cm/s) während der Startphase eliminiert.
START EDIT MODE muss direkt von EDIT in REC erfolgen (Taste REC vor der Taste PLAY drücken).

- Das Band in EDIT-Position zurückdrehen, bis die Marke im Lichtkegel der Lichtschranke erscheint. Falls der einzusetzende Teil von einem anderen Band überspielt wird, ist bei dieser Maschine der Startpunkt nach dem gleichen Verfahren einzustellen.
- Der Start muss direkt aus der EDIT-Position erfolgen, um den Schlupf an der Zählerrolle möglichst klein zu halten.
- Der Start muss unbedingt aus der EDIT-Position erfolgen; nur so kann der Schlupf möglichst klein gehalten werden.
- Da die rechte Umlenkrolle (Tape Move Sensor) die Zählinformation liefert, kann man weitere Ungenauigkeiten vermeiden, indem man die rechte Umlenkrolle bewegt, bis die Sekundenzahl im LED-Display umspringt (siehe Bild).
- Mit den Tasten REC und PLAY (je nach Position des Jumpers S2 auf Print 1.081.393-81 auch nur mit Taste REC) das Gerät starten.

2. OPERATION

2.1 APPLICATION

The new oscillator 1.081.984 permits unrestricted dropping in and out of a previously recorded tape or gap-free start behind an existing recording.
Two methods of operation are possible:

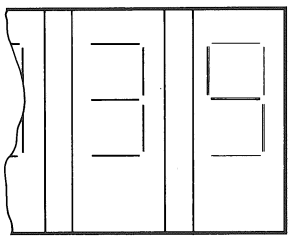
2.2 STANDARD INSERT

Operation remains basically the same. The RECORD mode is initiated during the PLAY function (DROP-IN).
After termination of the recording, a click-free drop-out is obtained by reselecting the PLAY function. It is still possible to switch to RECORD directly from the STOP position (or vice versa). However, it cannot be guaranteed that drop-in and drop-out positions of the erase or bias magnetization (audio) will match if this is done.

2.3 START EDIT MODE INSERT

To reduce potential slippage (especially at 15 ips) during the start phase it is recommended that the tape tension sensor be set for maximum tension before blocking in EDIT operation.
START EDIT MODE must be initiated directly from EDIT in REC (depress REC ahead of PLAY):

- Rewind the tape to the EDIT position until the marker appears directly below the beam of the light barrier. If the section to be inserted is being copied from another tape, the starting point of the source machine must be set up in the same manner.
- Start must be initiated directly from the EDIT position in order to keep slippage of the counter cylinder to a minimum.
- Only if the start is initiated directly from the EDIT position can slippage be kept to a minimum.
- Since the counting information is supplied from the tape movement sensor at the right-hand guide roller, potential inaccuracy can be eliminated by turning the right-hand guide roller until the seconds count of the LED display jumps to a new digit (see illustration).
- Start tape unit by depressing REC and PLAY keys (depending on position of jumper S2 in circuit board 1.081.393-81 with REC key alone).



Durch gestaffeltes Einsteigen des Lösch- und Aufnahmekopfes wird das Überlappen minimal gehalten (keine Addition der Signale). Bei erneuter Betätigung der Taste PLAY erfolgt das Aussteigen ebenfalls gestaffelt. Falls das einzusetzende Signal von einer anderen Maschine genommen wird, so hängt die Genauigkeit nicht nur vom Einsteigen und eventuell leicht abweichendem Hochlauf (unterschiedliche Massen) ab, sondern auch vom Synchronlauf der Maschinen.

Staggered drop-in of the erase and record heads reduces overlap to a minimum (no summing of signals). When the PLAY key is depressed anew, the drop-out function is also staggered. If the signals to be inserted originate from another source, accuracy depends not only on the drop-in function and possible deviation while running up to nominal tape speed (different reel weights) but also on the synchronicity of the two machines.

3. EINSTELLUNGEN

3.1 PROGRAMMIEREN DES OSZILLATORS 1.081.984

Für genaues weiches Einsteigen muss ein Bezugspunkt gewählt werden. Ab Werk wird bei allen A80 RC MK II Maschinen dieser Bezugspunkt auf die Lichtschranke eingestellt. Man kann allerdings auch einen anderen Bezugspunkt wählen, dafür muss die Maschine umprogrammiert werden.

3.2 UMPROGRAMMIEREN

- Band einlegen, Gerät nicht eingeschaltet
- Andruckaggregat von Hand ganz einfahren und in dieser Position festhalten
- Mit einem Fettstift die Position der Lichtschranke auf dem Band markieren
- Die Mitte des Lösch- und Aufnahmekopfes auf die gleiche Art markieren
- Andruckaggregat loslassen
- Den Abstand der Markierungen Lichtschranke-Löschkopf messen. Die Distanz (in Millimeter) durch 11,78 teilen und das Ergebnis auf- resp. abrunden.
- Den gerundeten Wert durch Umlöten der Lötbrücken am Counter A des Oszillators 1.081.984 fest einprogrammieren.
- Den Abstand der Markierungen Löschkopf-Aufnahmekopf messen. Die Distanz (in Millimeter) durch 11,78 teilen und das Ergebnis runden.
- Den erhaltenen Wert am Counter B des Oszillators 1.081.984 einprogrammieren.

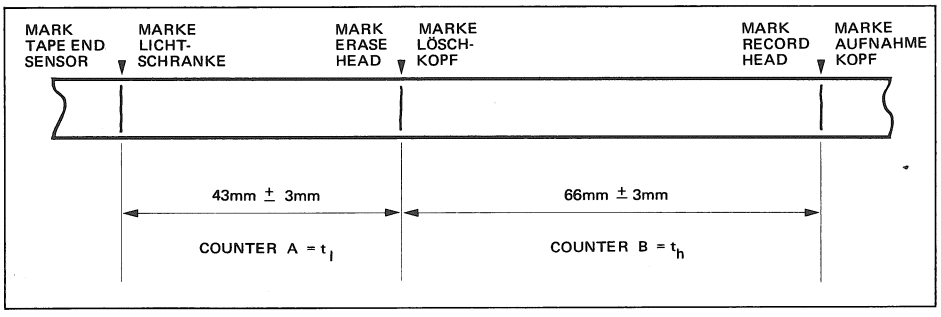
3. ADJUSTMENTS

3.1 PROGRAMMING OF OSCILLATOR 1.081.984

For accurate, smooth drop-in functions, a reference point must be selected. The factory setting for the A80 RC MK II uses the light barrier as the reference point. An alternate reference point can be chosen, but this requires reprogramming of the oscillator.

3.2 REPROGRAMMING

- Insert tape while machine is still switched off.
- Manually drop in pinch roller assembly and hold it firmly in this position.
- Mark the light barrier position on the tape with a grease pencil.
- Mark the erase and record head positions in the same manner.
- Release pinch roller assembly.
- Measure the distance between the light barrier and the erase head marking. Divide the distance (in millimeters) by 11.78 and round the result to the nearest integer.
- Permanently program the rounded value into counter A of oscillator 1.081.984 by resoldering the jumper.
- Measure the distance between the erase head and record head markings. Divide the distance (in millimeters) by 11.78 and round the result.
- The rounded value is permanently programmed into counter B of oscillator 1.081.984.

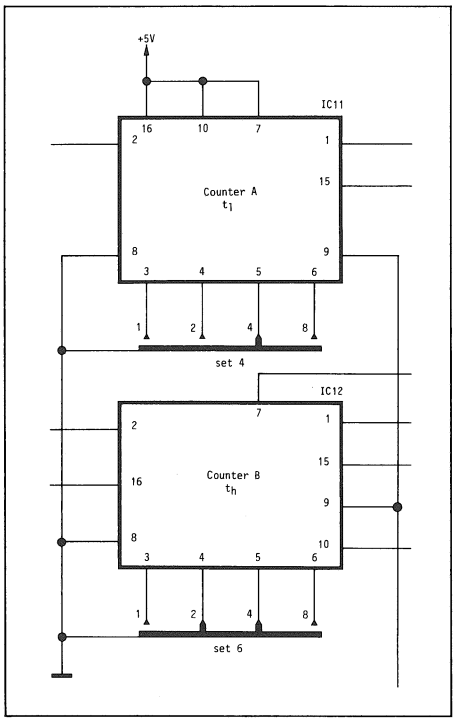


3.3
BEISPIEL

Abstand A: Lichtschranke-Löschkopf
43 mm
Abstand B: Löschkopf-Aufnahmekopf
66 mm
A 43 : 11,78 = 3,65 ≙ 4
B 66 : 11,78 = 5,6 ≙ 6
Demzufolge wird Counter A auf 4 und Counter B auf 6 programmiert.
Dies ist die Programmierung für den Pilotton-Kopfträger.

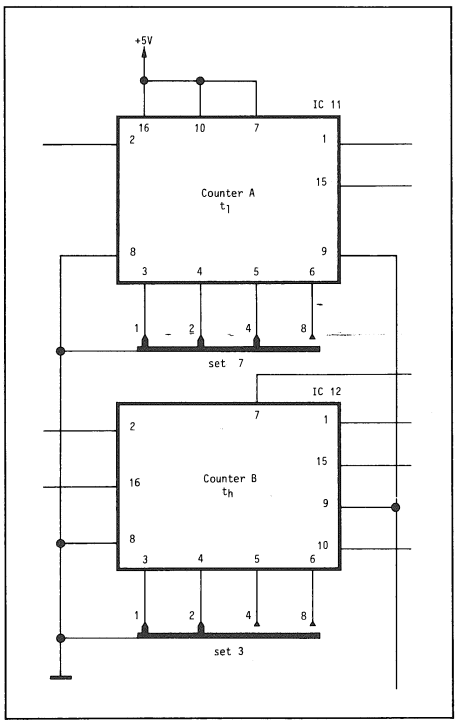
3.3
EXAMPLE

Distance A: light barrier-erase head
43 mm
Distance B: erase head-record head
66 mm
A 43 : 11.78 = 3.65 ≙ 4
B 66 : 11.78 = 5.6 ≙ 6
With this counter A is programmed for 4 and counter B for 6. This programming is necessary for the pilot tone head carrier.



Programmierung für den normalen Kopfträger (Löschkopf rechts der Vorberuhigungsrolle):
Counter A = 7
Counter B = 3

Programming for standard head carrier (erase head to the right of prestabilizer roller):
Counter A = 7
Counter B = 3



TITLE: PROFESSIONAL TAPE RECORDER ** STUDER A80 R/C ** 1.080.030.00 INDEX: 4 DATE OF ORIGIN: 79/03/28
DATE OF PROC.: 79/10/16

OPTIONS IN EFFECT: LCCLIS, SIGLIS

TOTAL GROUPS: 28
TOTAL ELEMENTS: 82
TOTAL PINS: 875
TOTAL UNUSED PINS: 173
MULTIPLE PINS: 7

SIGNALS: TOTAL: 217
USED: 203
UNUSED: 14

GROUP NODE = *
INTER GROUP NODE = #
DIRECT WIRE TO # = <
WIRING NOT COMPUTED = @

DIAGNOSTICS GENERATED: N O N E

GR: 01 1.080.305.81
REAR PANEL ASSEMBLY, POWER SECTION

EL: 02 GROUND POST, EXTERNAL

TYPE	PT	LV	SIG.NAME	CCLOR	F	X	Y
L	01	1*	GROUND	4/5			

EL: 04 MAIN FUSE, TAPE DECK

TYPE	PT	LV	SIG.NAME	CCLOR	F	X	Y
L	01	2	F-LINE2	7			
L	02	2	FL-LINE2	7			

EL: 05 MAINS FILTER

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
Z	01	2	FL-LINE1	6			
Z	01'	2	LINE1	6			
Z	02	2*	F-LINE2	7			
Z	02'	2	LINE2	8			
K	03	2	GROUND	4/5			

EL: 08 POWER FEED CONNECTOR, MAINS

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1	LINE1	6			
	02	1					
F	03	1	LINE2	8			
	04	1					
F	05	1	GROUND	4/5			
	06	1					
	07	1					
	08	1					

EL: 09 POWER INPUT CONNECTOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	2	FL-LINE1	6			
L	02	2	FL-LINE2	7			
L	03	2	GND MAIN	4/5			

GR: 02 1.081.320.00
POWER SUPPLY ASSEMBLY

EL: 01 POWER INPUT FEED CONNECTOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	1	LINE1	6			
	02	1					
M	03	1	LINE2	8			
	04	1					
M	05	1	GROUND	4/5			
	06	1					
	07	1					
	08	1					

EL: 02 VOLTAGE SELECTOR TERMINAL BLOCK

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	3*	S-LINE1	2			
L	02	2	T- 5	1			
L	03	2	T- 6	4			
L	04	2	T- 7	6			
L	05	2	T- 2	0			
L	06	2	T- 3	8			
L	07	3	T- 4	3			
L	08	2*	S-LINE2	9			

EL: 03 SCREEN CHASSIS CONNECTION

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
LS	01	1	SCREEN	0			

EL: 04 POWER TRANSFORMER

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	S-LINE1	2			
L	02	1	T- 2	0			
L	03	1	T- 3	8			
L	04	1	T- 4	(5)			
L	05	1	T- 5	1			
L	06	1	T- 6	4			
L	07	1	T- 7	6			
L	08	1	S-LINE2	9			
L	09	1	SCREEN	0			
L	10	1	T-10	0			
L	11	1	T-11	0			
L	12	1	T-12	2			
L	13	1	T-13	2			
L	14	1	T-14	6			
L	15	1	T-15	6			
L	16	1	T-16	4			
L	17	1	T-17	4			
L	18	1	T-18	5			
L	19	1	T-19	5			

./.

GR: 02 (CONTINUATION)
POWER SUPPLY ASSEMBLY

EL: 04 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	20	1	T-20	8			
L	21	1	T-21	6			
L	22	1	T-22	8			
L	23	1	T-23	8			
L	24	1	T-24	0			
L	25	1	T-25	0			
L	26	1	T-26	1			
L	27	1	T-27	1			
L	28	1	T-28	2			
L	29	1	T-29	2			
L	30	1	T-30	9			
L	31	1	T-31	9			

EL: 05 RECTIFIER & CONNECTOR PC CARD

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1					
L	02	1					
L	03	1					
L	04	1					
L	05	1					
L	06	1					
L	07	1					
L	08	1					
L	09	1	F-M2	9			
L	10	1	F-M1	4			
L	11	1	T-M1	1			
L	12	1@	+ 0.0	0			
L	13	1@	+ 0.0	0			
L	14	1@	+ 0.0	0			
L	15	1	F-M3	5			
L	16	1	T-M2	6			
L	17	2	+31.0	9			
L	17	2	+31.0(N)	9		&	
L	18	1	-10.0	6			
L	19	2*	+10.0	8			
L	20	1	+ 5.8	5			
L	21	1	T-M3	7(1)			
Y	31	1					
Y	32	1					
Y	33	1					
Y	34	1					
Y	35	1					
Y	36	1					
Y	37	1					
Y	38	1	0-AC1	6			
Y	39	1	0-AC2	7			
Y	40	1	AC1	6			
Y	41	1	AC2	7			
Y	42	1	0-AC3	4			

./.

GR: 02 (CONTINUATION)
POWER SUPPLY ASSEMBLY

EL: 05 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
Y	43	1	0-AC4	3			
Y	44	1	AC3	4			
Y	45	1	AC4	3			
L	51	1	T-24	0			
L	52	1	T-25	0			
L	53	1	T-26	1			
L	54	1	T-27	1			
L	55	1	T-28	2			
L	56	1	T-29	2			
L	57	1	T-30	9			
L	58	1	T-31	9			
Y	59	1					
Y	60	1N	+ 0.0(1)	0			
L	61	1	F-M1(0)	4			
L	62	1	T-17	4			
L	63	1	T-18	5			
L	64	1	T-20	8			
L	65	1	T-21	6			
L	66	1	F-M2(0)	5			
L	67	1	T-23	8			
L	68	1	F-M3(C)	8			
Y	71	1	+31.0(C)	9			
Y	72	1	+31.0(0)	9			
Y	73	1	+ 0.0(2)	0			
Y	74	1	+ 0.0(2)	0			
L	75	1	F(+24.0)	9			
L	76	1	T-11	0			
Y	77	1	T-17/18	1			
L	78	1	T-17/18	1			
Y	79	1	T-20/21	6			
L	80	1	T-20/21	6			
Y	81	1	+ 0.0(3)	0			
Y	82	1	+ 0.0(3)	0			
Y	83	1	-10.0(0)	6			
Y	84	1	-10.0(0)	6			
L	85	1	F(- 5.8)	6			
L	86	1	T-15	6			
Y	91	1	+10.0(0)	8			
Y	92	1	+10.0(0)	8			
Y	93	1	+ 0.0(4)	0			
Y	94	1	+ 0.0(4)	0			
L	95	1	F(+ 5.8)	2			
L	96	1	T-13	2			

EL: 06 GROUND CHASSIS CONNECTION

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
LS	01	1	GROUND	4/5			

GR: 02 (CONTINUATION)
POWER SUPPLY ASSEMBLY

EL: 08 POWER SWITCH FEED, RECEPTACLE

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1	LINE1	6			
F	02	1	LINE2	8			
	03	1					
F	04	1	S-LINE2	9			
F	05	1	S-LINE1	2			

EL: 10 FUSE, SUPPLY MOTOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	F-M1(0)	4			
L	02	1	T-16	4			

EL: 11 FUSE, TAKE-UP MOTOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	F-M2(0)	5			
L	02	1	T-19	5			

EL: 12 FUSE, CAPSTAN

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	F-M3(0)	8			
L	02	1	T-22	8			

EL: 13 FUSE, - 5.8 V

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	F(- 5.8)	6			
L	02	1	T-14	6			

EL: 14 FUSE, + 5.8 V

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	F(+ 5.8)	2			
L	02	1	T-12	2			

EL: 15 FUSE, +24.0 V

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	F(+24.0)	9			
L	02	1	T-10	0			

GR: 02 (CONTINUATION)
POWER SUPPLY ASSEMBLY

EL: 16 CHARGE CAPACITOR, +24.0 V (1)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	3*	+31.0(0)	9			
L	02	3*	+ 0.0(2)	0			

EL: 17 CHARGE CAPACITOR, +24.0 V (2)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	+31.0(0)	9			
L	02	1	+ 0.0(2)	0			

EL: 18 CHARGE CAPACITOR, + 5.8 V

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	2*	+10.0(0)	8			
L	02	2*	+ 0.0(4)	0			

EL: 19 CHARGE CAPACITOR, - 5.8 V

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	2*	+ 0.0(3)	0			
L	02	2*	-10.0(0)	6			

EL: 20 AUDIO ELECTRONICS FEED CONNECTOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1	AC1	6			
F	02	1	AC2	7			
M	03	1	AC3	4			
F	04	1	AC4	3			
F	05	1	0-AC1	6			
F	06	1	0-AC2	7			
F	07	1	0-AC3	4			
F	08	1	0-AC4	3			

EL: 21 TAPE DECK FEED CONNECTOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	1	+31.0	9			
M	02	1	+31.0(N)	9			
F	03	1	+10.0	8			
F	04	1	+10.0	8			
F	05	1	-10.0	6			
F	06	1@	+ 0.0	0			
F	07	1@	+ 0.0	0			
F	08	1@	+ 0.0	0			
M	09	1	+ 5.8	5			
	10	1					

./.

GR: 02 (CONTINUATION)
POWER SUPPLY ASSEMBLY

EL: 21 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	11	1					
	12	1					
	13	1					
	14	1					
	15	1					
	16	1					
	17	1					
	18	1					
F	19	1	F-M3	5			
F	20	1	T-M3	7(1)			
F	21	1	F-M2	9			
F	22	1	T-M2	6			
F	23	1	F-M1	4			
F	24	1	T-M1	1			

GR: 03 1.080.288.00
EXTENSION CABLE,PWR SUPPLY-MAINS SWITCH

EL: 01 EXTENSION CABLE, SUPPLY SIDE

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	1	LINE1	6			
M	02	1	LINE2	8			
	03	1					
M	04	1	S-LINE2	9			
M	05	1	S-LINE1	2			

EL: 02 EXTENSION CABLE, SWITCH SIDE

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1	LINE1	6			
F	02	1	LINE2	8			
	03	1					
F	04	1	S-LINE2	9			
F	05	1	S-LINE1	2			

GR: 04 1.080.283.00
TAPE SPEED AND POWER SWITCH ASSEMBLY

EL: 01 POWER SWITCH FEED, JACK

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	1	LINE1	6			
M	02	1	LINE2	8			
	03	1					
M	04	1	S-LINE2	9			
M	05	1	S-LINE1	2			

EL: 02 POWER SWITCH, REAR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	LINE1	6			
	02	1					
L	03	1	S-LINE1	2			

EL: 03 POWER SWITCH, FRONT

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	LINE2	8			
	02	1					
L	03	1	S-LINE2	9			

EL: 04 TAPE SPEED SELECTOR SWITCH

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	+ 0.0	0			
L	02	1	S-LOW	5			
L	03	1					

EL: 05 SPEED SELECTOR FEED, JACK

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1	+ 0.0	0			
F	02	1	S-LOW	5			
F	03	1					

GR: 05 1.080.421.00
CONTROL UNIT, SPEED SELECTOR CABLE PLUG

EL: 01 SPEED SELECTOR, CABLE PLUG

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	1@	+ 0.0	0			
M	02	1	S-LCW	5			
M	03	1					

GR: 06 1.080.415.00
PWR TRANSISTORS & PHASE SHIFT CAPACITORS

EL: 01 TAKE-UP MOTOR CAPACITOR, ADD.

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	2	M2-2	7			
L	02	2	C-M2-2	8			

EL: 03 DC CHASSIS CONNECTION

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
SL	01	1@	+ 0.0	0			

EL: 04 +24.0 V STABILIZER TRANSISTOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
H	01	2<	+24.0	2			
H	02	1	QPWR7-2	1			
L	03	2	+31.0	9			
L	03	2	+31.0(N)	9		&	

EL: 05 TAKE-UP MOTOR TRANSISTOR PAIR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	2	QPWR2-1	1			
L	02	2	QPWR2-2	4			
L	03	2	QPWR2-3	9			

EL: 06 SUPPLY MOTOR CAPACITOR, ADD.

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	2	M1-2	4			
L	02	2	C-M1-2	5			

EL: 08 +20.0 V STABILIZER TRANSISTOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
H	01	1	+20.0	3			
H	02	1	QPWR6-2	6			
L	03	1@	+24.0	2			

EL: 09 + 5.8 V STABILIZER TRANSISTOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
H	01	1	QPWR5-1	5			
H	02	1	QPWR5-2	7			
L	03	1	QPWR5-3	9			

GR: 06 (CONTINUATION)
PWR TRANSISTORS & PHASE SHIFT CAPACITORS

EL: 10 - 5.8 V STABILIZER TRANSISTOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
H	01	1	QPWR4-1	1			
H	02	1	QPWR4-2	8			
L	03	1	QPWR4-3	6			

EL: 11 CAPSTAN MOTOR CONTROL TRANSISTOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
H	01	1	QPWR3-1	4			
H	02	1	QPWR3-2	9			
L	03	1	QPWR3-3	7			

EL: 12 SUPPLY MOTOR TRANSISTOR PAIR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	2	QPWR1-1	2			
L	02	2	QPWR1-2	5			
L	03	2	QPWR1-3	8			

EL: 20 TAKE-UP MOTOR CAPACITOR, MAIN

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	M2-2	7			
L	02	1	C-M2-2	8			

EL: 21 CAPSTAN MOTOR CAPACITOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	T-M3	1			
L	02	1	C-M3-2	2			

EL: 22 SUPPLY MOTOR CAPACITOR, MAIN

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	M1-2	4			
L	02	1	C-M1-2	5			

GR: 07 1.080.421.00
CONTROL UNIT, SUPPLY MOTOR CABLE PLUG

EL: 01 SUPPLY MOTOR (M1)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1	M1-1	1			
	02	1					
F	03	1	M1-2	4			
	04	1					
F	05	1	C-M1-2	5			

GR: 08 1.080.421.00
FEED TO BRAKE LIFT SOLENOID LEFT

EL: 01 BRAKE LIFT SOLENOID, LEFT

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1@	+24.0	2			
F	02	1@	K-BLIFT	3			
	03	1					

GR: 09 1.080.421.00
FEED TO BRAKE LIFT SOLENOID RIGHT

EL: 01 BRAKE LIFT SOLENOID, RIGHT

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1@	+24.0	2			
F	02	1	K-BLIFT	3			
	03	1					

GR: 10 1.080.421.00
CONTROL UNIT, TAKE-UP MOTOR, CABLE PLUG

EL: 01 TAKE-UP MOTOR (M2)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1	M2-1	6			
	02	1					
F	03	1	C-M2-2	8			
	04	1					
F	05	1	M2-2	7			

GR: 11 1.080.421.00
FEED TO TAPE TENSION CONTROL LEFT

EL: 01 TAPE TENSION CONTROL ASSY, LEFT

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	1@	+20.0	3			
M	02	1	R-TT1	1			
M	03	1@	+ 0.0	0			
M	04	1	K-TT1/2	7			
M	05	1@	+24.0	2			

GR: 12 1.080.421.00
FEED TO TAPE TENSION RIGHT

EL: 01 TAPE TENSION CONTROL ASSY, RIGHT

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	1@	+20.0	3			
M	02	1	R-TT2	2			
M	03	1@	+ 0.0	0			
M	04	1	K-TT	9			
M	05	1	K-TT1/2	7			

GR: 13 1.080.421.00
FEED TO OPTICAL TAPE SENSOR

EL: 01 OPTICAL TAPE ENC SENSOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	1	+RP-TRSP	3			
M	02	1@	+ 0.0	0			
M	03	1	-RP-TRSP	8			
	04	1					
F	05	1	B-TRSP	7			

GR: 15 1.080.421.00
FEED TO TAPE MOVE & DIRECTION SENSOR

EL: 01 TAPE MOVE AND DIR. SENSOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
P	01	0					
P	02	1@	+ 5.8	5			
P	03	1	QP-DIR2	7			
P	04	1@	+ 0.0	0			
P	05	1	QP-DIR1	8			
P	06	1@	+ 0.0	0			

GR: 16 1.080.421.00
FEED TO PRESSURE ROLLER ASSEMBLY

EL: 01 PRESSURE ROLLER ASSEMBLY

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1@	+24.0	2			
M	02	1@	K-PRESS	8			
M	03	1	Y-ACCEL	6			
M	04	1	K-CUT	5			
M	05	1R	S-TT	4			

GR: 18 1.080.421.00
CONTROL UNIT, CAPSTAN MOTOR CABLE PLUG

EL: 01 CAPSTAN MOTOR ASSEMBLY

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	1	M3-1	6			
M	02	1	T-M3	1			
M	03	1	C-M3-2	2			
M	04	1	0-YAC1	0			
M	05	1	YAC1-M3	4			
M	06	1@	- 5.8	6			
M	07	1	0-YAC2	0			
M	08	1	YAC2-M3	5			

GR: 19 1.080.421.00
FEED TO LOCAL COMMAND SWITCHES

EL: 01 COMMAND SWITCHES, LOCAL

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
P	01	1	B-INDIC	9			
P	02	1	B-CUT	6			
P	03	1	B-REC	5			
P	04	1@	B-STOP	1			
P	05	1	B-REPR	4			
P	06	1	B-FORW	3			
P	07	1	B-REW	2			
P	08	1	S-STOP	1			
P	09	1	S-REW	2			
P	10	1	S-FORW	3			
P	11	1	S-REPR	4			
P	12	1	S-REC	5			
P	13	1	S-CUT	6			
P	14	1@	+ 0.0	0			
P	15	1	LOC-IN	5			

GR: 20 1.080.421.00
FEED TO LOCAL TAPE TIMER

EL: 01 TIMER FEED PC-CARD PLUG

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
P	01	1@	- 5.8	6			
P	02	1@	+ 0.0	0			
P	03	1	K-RESET	1			
P	04	1@	+24.0	2			
P	05	1	Y-CLK	3			
P	06	1	Y-REVRS	4			
P	07	1	Y-ICLK	5			
P	08	1	Y-FORW	6			
P	09	1@	+ 5.8	5			

GR: 21 1.080.421.00
CONTROL UNIT, CUTTER CONTROL, CABLE PLUG

EL: 01 CUTTER CONTROL ASSEMBLY

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	1	R-CUT-1	5			
M	02	1@	+20.0	3			
F	03	1	R-CUT-3	7			
M	04	1	S-CUTAUT	1			
M	05	1	LOC-IN	5			

GR: 22 1.080.421.00
FEED TO TAPE END SENSOR LEFT

EL: 01 TAPE END SENSOR LEFT

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
P	01	1@	+ 0.0	0			
P	02	1					
P	03	1@	- 5.8	6			
P	04	1	TT1-ACT	3			
P	05	1					
P	06	1					

GR: 23 1.080.421.00
FEED TO TAPE END SENSOR RIGHT

EL: 01 TAPE END SENSOR RIGHT

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
P	01	1@	+ 0.0	0			
P	02	1					
P	03	1@	- 5.8	6			
P	04	1	TT2-ACT	8			
P	05	1					
P	06	1					

GR: 24 1.081.971.00
ZERO LOCATOR WIRING

EL: 02 TIMER FEED 11-POLE CIS PLUG

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	1	Y2-SIGN	5			
N	02	1	BCD2**0	1			
N	03	1	BCD2**1	2			
N	04	1	BCD2**2	3			
N	05	1	BCD2**3	4			
N	06	1	ZERO-OUT	6			
N	07	1					
N	08	1					
N	09	1	DIG10**1	8			
N	10	1	DIG10**0	9			
N	11	1	KEY				

EL: 03 TIMER FEED 3-POLE MOLEX PLUG

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	1	D-ZLOCAT	4			
M	02	1	S-ZLOCAT	7			
F	03	1@	+ 5.8	5			

EL: 05 CONNECTOR TO ZERO-LOCATOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
WT	01A	3	+ 0.0(6)	0			
WT	02A	3	+ 0.0(7)	0			
WT	03A	3	BCD2**0	1			
WT	04A	3	BCD2**1	2			
WT	05A	3	BCD2**2	3			
WT	06A	3	BCD2**3	4			
WT	07A	3					
WT	08A	3					
WT	09A	3	DIG10**0	9			
WT	10A	3	DIG10**1	8			
WT	11A	3	Y-HIGH	4			
WT	12A	3	YPS-MOVE	3			
WT	13A	3					
WT	14A	3@	S-FORW	3			
WT	15A	3	Y2-SIGN	5			
WT	16A	3@	S-REW	2			
WT	17A	3	S-ZLOCAT	7			
WT	18A	3	B-STOP	1			
WT	19A	3	ZERO-OUT	6			
	19K	0	KEY				
WT	20A	3@	S-STOP	1			
WT	21A	3	D-ZLOCAT	4			
WT	22A	3	B-ZLOCAT	8			
WT	23A	3	+24.0(1)	2			
WT	24A	3	- 5.8	6			
WT	25A	3@	+ 5.8	5			

GR: 24 (CONTINUATION)
ZERO LOCATOR WIRING

EL: 07 FEED TO ZERO-LOCATOR-SYSTEM

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	1	- 5.8	6			
M	02	1	+ 5.8	5			
F	03	1	+24.0(1)	2			
F	04	1	YPS-MOVE	3			
F	05	1	Y-HIGH	4			
	06	1					
	07	1					
F	08	1	S-FORW	3			
	09	1					
	10	1					
M	11	1	B-ZLOCAT	8			
	12	1					
	13	1					
	14	1					
	15	1					
	16	1					
	17	1					
	18	1					
F	19	1	S-REW	2			
F	20	1	S-STOP	1			
M	21	1	S-ZLOCAT	7			
F	22	1	B-STOP	1			
F	23	1	+ 0.0(6)	0			
M	24	1	+ 0.0(7)	0			

GR: 25 1.081.418.00
POWER FEED FROM SUPPLY, CABLE PLUG

EL: 01 POWER FEED FROM SUPPLY

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1<	+31.0	9			
F	02	1<	+31.0(N)	9			
M	03	1<	+10.0	8			
M	04	1<	+10.0	8			
M	05	1	-10.0	6			
M	06	1@	+ 0.0	0			
M	07	1@	+ 0.0	0			
M	08	1@	+ 0.0	0			
F	09	1@	+ 5.8	5			
	10	1					
	11	1					
	12	1					
	13	1					
	14	1					
	15	1					
	16	1					
	17	1					
	18	1					
M	19	1	F-M3	5			
M	20	1	T-M3	1			
M	21	1	F-M2	9			
M	22	1	T-M2	6			
M	23	1	F-M1	4			
M	24	1	T-M1	1			

GR: 29 1.080.400.93
CONTROL UNIT, INTERNAL CONNECTORS

EL: 01 CONNECTOR TO AUDIO SECTION

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1	Y-MONO	9			
F	02	1@	- 5.8	6			
F	03	1	S-CAPEXT	8			
F	04	1	Y-OUT1	4			
F	05	1	SPD-CTL1	9			
M	06	1@	+ 5.8	5			
F	07	1	RECSTINH	9			
F	08	1	MOD-1	3			
	09	1					
F	10	1	S-MONO	1			
F	11	1	Y-REC	6			
F	12	1	YPS-REC	3			
F	13	1@	+ 0.0	0			
F	14	1	Y-TRSP	7			
F	15	1	Y-END	3			
F	16	1	MOD-2	8			
M	17	1	B-CUT	6			
M	18	1	YPS-MOVE	3			
F	19	1	Y-LOW	5			
F	20	1	Y-MUTE	4			
M	21	1@	+24.0	2			
F	22	1@	B-STOP	1			
M	23	1	K-PRESS	8			
M	24	1	B-MCNC	7			

EL: 02 CONNECTOR TO ZERO-LOCATOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
F	01	1@	- 5.8	6			
F	02	1@	+ 5.8	5			
M	03	1	+24.0(1)	2			
M	04	1	YPS-MOVE	3			
M	05	1	Y-HIGH	4			
	06	1					
	07	1					
M	08	1	S-FORW	3			
	09	1					
	10	1					
F	11	1	B-ZLOCAT	8			
	12	1					
	13	1					
	14	1					
	15	1					
	16	1					
	17	1					
	18	1					
M	19	1	S-REW	2			
M	20	1	S-STOP	1			
F	21	1	S-ZLOCAT	7			
M	22	1	B-STOP	1			

./.

GR: 29 (CONTINUATION)
CONTROL UNIT, INTERNAL CONNECTORS

EL: 02 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	23	1	+ 0.0(6)	0			
F	24	1	+ 0.0(7)	0			

GR: 30 1.080.405.00
CONTROL UNIT, CARD CHASSIS

EL: 01 +24/+20/+6/-6V STABIL. PC CARD

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
WT	01A	3	+ 0.0	0			
WT	02A	3	+ 0.0	0			
WT	03A	3	QPWR6-2	6			
WT	04A	3					
WT	05A	3#	+31.0(N)	9			
WT	06A	3#	+31.0	9			
WT	07A	3	QPWR7-2	1			
WT	08A	3	QPWR7-2				
WT	09A	3	+20.0	3			
WT	10A	3	+20.0				
WT	11A	3	+24.0				
WT	12A	3	+24.0	2			
WT	13A	3	Y-MUTE	4			
WT	14A	3	- 5.8	6			
WT	15A	3	QPWR4-3	6			
WT	16A	3	QPWR4-2	8			
WT	17A	3	QPWR4-1	1			
WT	18A	3	-10.0	6			
WT	19A	3	+ 0.0				
WT	20A	3	+ 0.0				
WT	21A	3#	+10.0	8			
WT	22A	3	QPWR5-3	9			
	22K	0	KEY				
WT	23A	3	QPWR5-2	7			
WT	24A	3	QPWR5-1	5			
WT	25A	3	+ 5.8	5			

EL: 02 MOVE STATUS PC CARD

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
WT	01A	3	+ 0.0	0			
WT	01B	3	+ 0.0	0			
WT	02A	3	+ 0.0	0			
WT	02B	3	+ 0.0	0			
WT	03A	3	QP-DIR1	8			
WT	03B	3	+RP-TRSP	3			
WT	04A	3	QP-DIR2	7			
WT	04B	3					
WT	05A	3	YBI-MOV1				
WT	05B	3	YBI-MOVD				
WT	06A	3					
WT	06B	3					
WT	07A	3	Y-END				
WT	07B	3	YBI-END				
WT	08A	3	B-CUT	6			
WT	08B	3	Y-HIGH	4			
WT	09A	3	Y-FORW	6			
WT	09B	3N	YBI-PLS2				
WT	10A	3	Y-MOVE-1	8			
WT	10B	3					

./.

GR: 30 (CONTINUATION)
CONTROL UNIT, CARD CHASSIS

EL: 02 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	CCLOR	F	X	Y
WT	11A	3					
WT	11B	3					
WT	12A	3N	YBI-FORW				
WT	12B	3	YBI-INIT				
WT	13A	3					
WT	13B	3					
WT	14A	3	Y-ICLK	5			
WT	14B	3					
	14K	0	KEY				
WT	15A	3	Y-REVRS	4			
WT	15B	3					
WT	16A	3N	YBI-LOAD				
WT	16B	3					
WT	17A	3	Y-CLK	3			
WT	17B	3					
WT	18A	3					
WT	18B	3					
WT	19A	3	Y-LOW	5			
WT	19B	3					
WT	20A	3N	YBI-PULS				
WT	20B	3*	YPS-MOVE	3			
WT	21A	3	Y-TRSP	7			
WT	21B	3	Y-MOVE-C	9			
WT	22A	3	B-TRSP	7			
WT	22B	3	-RP-TRSP	8			
WT	23A	3	+24.0	2			
WT	23B	3	+24.0	2			
WT	24A	3	- 5.8	6			
WT	24B	3	- 5.8	6			
WT	25A	3	+ 5.8	5			
WT	25B	3	+ 5.8	5			

EL: 03 COMMAND RECEIVER

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
WT	01A	3	+ 0.0	0			
WT	01B	3	+ 0.0	0			
WT	02A	3	+ 0.0	0			
WT	02B	3	+ 0.0	0			
WT	03A	3					
WT	03B	3					
WT	04A	3	YBI-MOVC				
WT	04B	3					
WT	05A	3	YBI-FFC				
WT	05B	3					
WT	06A	3	YBI-FF1				
WT	06B	3					
WT	07A	3	YBI-FF2				
WT	07B	3					
	07K	0	KEY				

./.

GR: 30 (CONTINUATION)
CONTROL UNIT, CARD CHASSIS

EL: 03 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
WT	08A	3	YBI-FF3				
WT	08B	3					
WT	09A	3	B-REPR				
WT	09B	3					
WT	10A	3	YPS-REC	3			
WT	10B	3	CTRL-REC				
WT	11A	3					
WT	11B	3					
WT	12A	3	YBI-INIT				
WT	12B	3	YBI-FAD				
WT	13A	3	S-REC	5			
WT	13B	3	YBI-CUT				
WT	14A	3	RECSTINH	9			
WT	14B	3					
WT	15A	3#	S-STOP	1			
WT	15B	3	YBI-END				
WT	16A	3	S-REPR	4			
WT	16B	3					
WT	17A	3#	S-REW	2			
WT	17B	3					
WT	18A	3	S-CUT	6			
WT	18B	3					
WT	19A	3#	S-FORW	3			
WT	19B	3					
WT	20A	3	Y-STOP	7			
WT	20B	3					
WT	21A	3*	TT2-ACT	8			
WT	21B	3					
WT	22A	3	TT1-ACT	3			
WT	22B	3					
WT	23A	3	+24.0	2			
WT	23B	3	+24.0	2			
WT	24A	3	- 5.8	6			
WT	24B	3	- 5.8	6			
WT	25A	3	+ 5.8	5			
WT	25B	3	+ 5.8	5			

EL: 04 COMMAND DECODER

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
WT	01A	3	+ 0.0	0			
WT	01B	3	+ 0.0	0			
WT	02A	3	+ 0.0	0			
WT	02B	3	+ 0.0	0			
WT	03A	3	YBI-MOV1				
WT	03B	3	YBI-FFO				
WT	04A	3	YBI-FF1				
WT	04B	3	YBI-FF3				
WT	05A	3	YBI-FF2				
WT	05B	3	+ 0.0	0			

./.

GR: 30 (CONTINUATION)
CONTROL UNIT, CARD CHASSIS

EL: 04 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
WT	05B	3	+ 0.0(5)	0		&	
WT	06A	3	+ 0.0(5)	0			
WT	06B	3					
WT	07A	3	Y-REC	6			
WT	07B	3					
WT	08A	3	B-FORW	3			
WT	08B	3*	B-REPR	4			
WT	09A	3	K-PRESS	8			
WT	09B	3	K-BRAKE				
WT	10A	3	CTRL-REC				
WT	10B	3	B-REC	5			
WT	11A	3	+ 0.0(5)	0			
WT	11B	3					
WT	12A	3	YBI-FAD				
WT	12B	3					
WT	13A	3	+ 0.0(5)	0			
WT	13B	3	B-STOP	1			
WT	14A	3	B-STOP	1			
WT	14B	3	B-REW	2			
WT	15A	3	YBI-CAUT				
WT	15B	3	B-FAD	1			
WT	16A	3	CMD.ENB2	4			
WT	16B	3	B-CUT	6			
WT	17A	3	S-CUTAUT	1			
WT	17B	3R	K-CUT-2				
WT	18A	3	YBI-CUT				
WT	18B	3	K-BLIFT	3			
WT	19A	3N	YBI-RES3				
WT	19B	3	K-CUT	5			
WT	20A	3	FAD-1	8			
WT	20B	3	K-TT	9			
WT	21A	3	FAD-2	9			
WT	21B	3	Y-RES3	4			
	21K	0	KEY				
WT	22A	3	S-RES2	3			
WT	22B	3					
WT	23A	3	+24.0	2			
WT	23B	3	+24.0	2			
WT	24A	3	- 5.8	6			
WT	24B	3	- 5.8	6			
WT	25A	3	+ 5.8	5			
WT	25B	3	+ 5.8	5			

EL: 05 CAPSTAN SERVO PC CARD

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
WT	01A	3	+ 0.0	0			
WT	01B	3					
WT	02A	3	+ 0.0	0			
WT	02B	3					

./.

GR: 30 (CONTINUATION)
CONTROL UNIT, CARD CHASSIS

EL: 05 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	02K	0	KEY				
WT	03A	3	YAC2-M3	5			
WT	03B	3	Y-SYNC2	3			
WT	04A	3	YAC1-M3	4			
WT	04B	3N	Y-TACH-C				
WT	05A	3	O-YAC2	0			
WT	05B	3	K-PRESS	8			
WT	06A	3	O-YAC1	0			
WT	06B	3					
WT	07A	3	R-SPLY-C	7			
WT	07B	3					
WT	08A	3	SPD-CTL2	1			
WT	08B	3					
WT	09A	3	Y-OUT1	4			
WT	09B	3					
WT	10A	3	S-CAPEXT	8			
WT	10B	3					
WT	11A	3	Y-LOW	5			
WT	11B	3					
WT	12A	3	SPD-CTL1	9			
WT	12B	3					
WT	13A	3	R-SPLY-1	7			
WT	13B	3					
WT	14A	3	+20.0	3			
WT	14B	3					
WT +	15A	3#	C-M3-2	2			
WT	15B	3					
WT +	16A	3#	T-M3	1			
WT	16B	3					
WT	17A	3	F-M3	5			
WT	17B	3					
WT	18A	3	M3-1	6			
WT	18B	3					
WT	19A	3	Y-SYNC1	3			
WT	19B	3					
WT	20A	3	QPWR3-3	7			
WT	20B	3					
WT	21A	3	QPWR3-2	9			
WT	21B	3					
WT	22A	3	QPWR3-1	4			
WT	22B	3					
WT	23A	3	+24.0	2			
WT	23B	3					
WT	24A	3	- 5.8	6			
WT	24B	3					
WT	25A	3	+ 5.8	5			
WT	25B	3					

GR: 30 (CONTINUATION)
CONTROL UNIT, CARD CHASSIS

EL: 06 SPOOLING MOTOR CONTROL PC CARD

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
WT	01A	3	+ 0.0	0			
WT	01B	3					
WT	02A	3	+ 0.0	0			
WT	02B	3					
WT	03A	3	QPWR2-1	1			
WT +	03B	3	Y-MONO	9(2)			
WT	04A	3	QPWR2-2	4			
WT	04B	3					
WT	05A	3	B-FORW	3			
WT +	05B	3	B-MONC	7(3)			
WT	06A	3	T-M2	6			
WT	06B	3					
WT	07A	3	YAN-M2				
WT +	07B	3#	S-MONC	1			
WT	08A	3	QPWR2-3	9			
WT	08B	3					
WT	09A	3	R-TT2	2			
WT +	09B	3	S-LOW	5			
WT	10A	3	K-PRESS				
WT	10B	3	Y-ACCEL	6			
WT	11A	3	TT2-ACT				
WT +	11B	3#	LOC-IN	5			
WT	12A	3	YBI-CAUT				
WT +	12B	3	LOC-IN	5			
WT +	12B	3#	LOC-IN*	5		&	
	12K	0	KEY				
WT	13A	3	R-CUT-3	7			
WT +	13B	3	K-RESET	1			
WT	14A	3	K-BLIFT	3			
WT	14B	3					
WT	15A	3	R-CUT-1	5			
WT +	15B	3	MCD-1	3			
WT	16A	3	R-TT1	1			
WT +	16B	3	MCD-2	8(1)			
WT	17A	3	B-REW	2			
WT	17B	3					
WT	18A	3	T-M1	1			
WT +	18B	3#	K-TT1/2	7			
WT	19A	3	YAN-M1				
WT +	19B	3	S-ZLOCAT	7			
WT	20A	3	QPWR1-3	8			
WT	20B	3					
WT	21A	3	QPWR1-2	5			
WT	21B	3					
WT	22A	3	QPWR1-1	2			
WT	22B	3					
WT	23A	3	+20.0	3			
WT	23B	3					
WT	24A	3	- 5.8				
WT	24B	3					
WT	25A	3	+ 5.8	5			

./.

GR: 30 (CONTINUATION)
CONTROL UNIT, CARD CHASSIS

EL: 06 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
WT	25B	3					

EL: 07 CONTACTOR PC CARD

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
WT	01A	3	+ 0.0	0			
WT	01A	3	+ 0.0(6)	0		&	
WT	02A	3	+ 0.0	0			
WT	02A	3	+ 0.0(7)	0		&	
WT	03A	3	+24.0	2			
WT	04A	3	+24.0	2			
WT	05A	3	YAN-M2				
WT	06A	3#	M2-2	7			
	06K	0	KEY				
WT	07A	3	F-M2	9			
WT	08A	3	M2-1	6			
WT +	09A	3#	C-M2-2	8			
WT	10A	3#	M1-2	4			
WT	11A	3	YAN-M1				
WT	12A	3	M1-1	1			
WT	13A	3	F-M1	4			
WT +	14A	3#	C-M1-2	5			
WT	15A	3	K-BRAKE				
WT	16A	3	Y-REVRS	4			
WT	17A	3	+20.0	3			
WT	18A	3	R-TT2				
WT	19A	3	YBI-END				
WT	20A	3N	Y-FLASH				
WT	21A	3	B-INDIC	9			
WT	22A	3N	YBI-SAFE				
WT	23A	3	+24.0	2			
WT	23A	3	+24.0(1)	2		&	
WT	24A	3	- 5.8	6			
WT	25A	3	+ 5.8	5			

EL: 13 BUSS BAR NO 1

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
W	01	9#	+ 0.0				

EL: 14 BUSS BAR NO 2

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
W	01	9*	- 5.8				

GR: 30 (CONTINUATION)
CONTROL UNIT, CARD CHASSIS

EL: 15 BUSS BAR NO 3

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
W	01	9#	+ 5.8				

EL: 16 BUSS BAR NO 4

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
WL	01	9#	+24.0	2			

GR: 35 1.081.417.00
REAR PANEL ASSEMBLY, REMOTE CONTROL

EL: 26 CAPSTAN SPEED CONTROL CONNECTOR

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1@	+ 0.0	0			
L	02	1@	+24.0	2			
L	03	1@	+ 5.8	5			
L	04	1	S-CAPEXT	8			
L	05	1	R-SPLY-1	7			
L	06	1	Y-SYNC2	3			
L	07	1	Y-OUT1	4			
L	08	1@	+ 0.0	0			
L	09	1					
L	10	1@	- 5.8	6			
L	11	1	Y-SYNC1	3			
L	12	1	SPD-CTL1	9			
L	13	1	R-SPLY-0	7			
L	14	1	SPD-CTL2	1			

GR: 36 1.081.417.00
REAR PANEL ASSEMBLY, REMOTE CONTROL

EL: 11 TIME ELAPSE METER FEED

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
G	01	1@	+24.0	2			
G	02	1	K-BLIFT	3			

EL: 27 MODE CONTROL CONNECTOR, REMOTE

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	B-INDIC	9			
L	02	1	B-REW	2			
L	03	1	B-FORW	3			
L	04	1	B-REPR	4			
L	05	1	B-STOP	1			
L	06	1	B-REC	5			
L	07	1	B-CUT	6			
L	08	1	B-MONO	7(3)			
L	09	1	YPS-MOVE	3			
L	10	1	B-FAD	1			
L	11	1	FAD-1	8			
L	12	1@	+24.0	2			
L	13	1	Y-MOVE-1	8			
L	14	1	Y-MOVE-D	9			
L	15	1@	- 5.8	6			
L	16	1	Y-REVRS	4			
L	17	1	Y-FORW	6			
L	18	1@	+24.0	2			
L	19	1	LOC-IN'	5			
L	20	1	S-REW	2			
L	21	1	S-FORW	3			
L	22	1	S-REPR	4			
L	23	1	S-STOP	1			
L	24	1	S-REC	5			
L	25	1	S-CUT	6			
L	26	1	S-MONO	1			
L	27	1	Y-MUTE	4			
L	28	1	S-ZLOCAT	7			
L	29	1	FAD-2	9			
L	30	1@	+ 0.0	0			
L	31	1R	+0-TYPE	7			
L	32	1@	+ 5.8	5			
L	33	1	K-RESET	1			
L	34	1	Y-CLK	3			
L	35	1	Y-ICLK	5			
L	36	1@	+ 0.0	0			

GR: 37 1.081.417.00
REAR PANEL ASSEMBLY, REMOTE CONTROL

EL: 28 EXTENDED MODE CONTROL, REMOTE

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	1	LOC-IN'	5			
L	02	1	K-PRESS	8			
L	03	1	MOD-2	8(1)			
L	04	1	MOD-1	3			
L	05	1					
L	06	1	Y-STOP	7			
L	07	1					
L	08	1	Y-RES3	4			
L	09	1	Y-LOW	5			
L	10	1	Y-MONO	9(2)			
L	11	1	S-RES2	3			
L	12	1					
L	13	1	CMD.ENB2	4			
L	14	1	R-CUT-1	5			
L	15	1	R-CUT-3	7			
L	16	1	S-CUTAUT	1			
L	17	1R	Y-REFLEX	2			
L	18	1	Y-TRSP	7			
L	19	1	TT1-ACT	3			
L	20	1	TT2-ACT	8			
L	21	1	S-LOW	5			
L	22	1	S-MONO	1			
L	23	1	RECSTINH	9			
L	24	1@	+ 0.0	0			

GR #	USED PINS	UNUSED PINS	TOTAL PINS	COD. KEYS	ELE-MNTS	DESCRIPTION OF GROUP	PART # OF GR
01	14	5	19	0	5	REAR PANEL ASSEMBLY, POWER SECTION	1.080.305.81
02	152	31	183	0	19	POWER SUPPLY ASSEMBLY	1.081.320.00
03	8	2	10	0	2	EXTENSION CABLE,PWR SUPPLY-MAINS SWITCH	1.080.288.00
04	12	5	17	0	5	TAPE SPEED AND POWER SWITCH ASSEMBLY	1.080.283.00
05	2	1	3	0	1	CONTROL UNIT, SPEED SELECTOR CABLE PLUG	1.080.421.00
06	33	0	33	0	13	PWR TRANSISTORS & PHASE SHIFT CAPACITORS	1.080.415.00
07	3	2	5	0	1	CONTROL UNIT, SUPPLY MOTOR CABLE PLUG	1.080.421.00
08	2	1	3	0	1	FEED TO BRAKE LIFT SOLENOID LEFT	1.080.421.00
09	2	1	3	0	1	FEED TO BRAKE LIFT SOLENOID RIGHT	1.080.421.00
10	3	2	5	0	1	CONTROL UNIT, TAKE-UP MOTOR, CABLE PLUG	1.080.421.00
11	5	0	5	0	1	FEED TO TAPE TENSION CONTROL LEFT	1.080.421.00
12	5	0	5	0	1	FEED TO TAPE TENSION RIGHT	1.080.421.00
13	4	1	5	0	1	FEED TO OPTICAL TAPE SENSOR	1.080.421.00
15	5	1	6	0	1	FEED TO TAPE MOVE & DIRECTION SENSOR	1.080.421.00
16	5	0	5	0	1	FEED TO PRESSURE ROLLER ASSEMBLY	1.080.421.00
18	8	0	8	0	1	CONTROL UNIT, CAPSTAN MOTOR CABLE PLUG	1.080.421.00
19	15	0	15	0	1	FEED TO LOCAL COMMAND SWITCHES	1.080.421.00
20	9	0	9	0	1	FEED TO LOCAL TAPE TIMER	1.080.421.00
21	5	0	5	0	1	CONTROL UNIT, CUTTER CONTROL, CABLE PLUG	1.080.421.00
22	3	3	6	0	1	FEED TO TAPE END SENSOR LEFT	1.080.421.00
23	3	3	6	0	1	FEED TO TAPE END SENSOR RIGHT	1.080.421.00
24	46	16	62	2	4	ZERO LOCATOR WIRING	1.081.971.00
25	15	9	24	0	1	POWER FEED FROM SUPPLY, CABLE PLUG	1.081.418.00
29	36	12	48	0	2	CONTROL UNIT, INTERNAL CONNECTORS	1.080.400.93
30	235	74	309	7	11	CONTROL UNIT, CARD CHASSIS	1.080.405.00
35	13	1	14	0	1	REAR PANEL ASSEMBLY, REMOTE CONTROL	1.081.417.00
36	38	0	38	0	2	REAR PANEL ASSEMBLY, REMOTE CONTROL	1.081.417.00
37	21	3	24	0	1	REAR PANEL ASSEMBLY, REMOTE CONTRCL	1.081.417.00
TOT.	702	173	875	9	82	DISTRIBUTED IN 28 GROUPS	

SIG.NAME	CCLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT
0-AC1	6	Y	02	05	38		RECTIFIER & CONNECTOR PC CARD
		F	02	20	05		AUDIO ELECTRONICS FEED CONNECTOR
0-AC2	7	Y	02	05	39		RECTIFIER & CONNECTOR PC CARD
		F	02	20	06		AUDIO ELECTRONICS FEED CONNECTOR
0-AC3	4	Y	02	05	42		RECTIFIER & CONNECTOR PC CARD
		F	02	20	07		AUDIO ELECTRONICS FEED CONNECTOR
0-AC4	3	Y	02	05	43		RECTIFIER & CONNECTOR PC CARD
		F	02	20	08		AUDIO ELECTRONICS FEED CONNECTOR
0-YAC1	0	M	18	01	04		CAPSTAN MOTOR ASSEMBLY
		WT	30	05	06A		CAPSTAN SERVO PC CARD
0-YAC2	0	M	18	01	07		CAPSTAN MOTOR ASSEMBLY
		WT	30	05	05A		CAPSTAN SERVO PC CARD
+ 0.0	0	L	02	05	12	@	RECTIFIER & CONNECTOR PC CARD
		L	02	05	13	@	RECTIFIER & CONNECTOR PC CARD
		L	02	05	14	@	RECTIFIER & CONNECTOR PC CARD
		F	02	21	06	@	TAPE DECK FEED CONNECTOR
		F	02	21	07	@	TAPE DECK FEED CONNECTOR
		F	02	21	08	@	TAPE DECK FEED CONNECTOR
		L	04	04	01		TAPE SPEED SELECTOR SWITCH
		F	04	05	01		SPEED SELECTOR FEED, JACK
		M	05	01	01	@	SPEED SELECTOR, CABLE PLUG
		SL	06	03	01	@	DC CHASSIS CONNECTION
		M	11	01	03	@	TAPE TENSION CONTROL ASSY, LEFT
		M	12	01	03	@	TAPE TENSION CONTROL ASSY, RIGHT
		M	13	01	02	@	OPTICAL TAPE END SENSOR
		P	15	01	04	@	TAPE MOVE AND DIR. SENSOR
		P	15	01	06	@	TAPE MOVE AND DIR. SENSOR
		P	19	01	14	@	COMMAND SWITCHES, LOCAL
		P	20	01	02	@	TIMER FEED PC-CARD PLUG
		P	22	01	01	@	TAPE END SENSOR LEFT
		P	23	01	01	@	TAPE END SENSOR RIGHT
		M	25	01	06	@	POWER FEED FROM SUPPLY
		M	25	01	07	@	POWER FEED FROM SUPPLY
		M	25	01	08	@	POWER FEED FROM SUPPLY
		F	29	01	13	@	CONNECTOR TO AUDIO SECTION
		WT	30	01	01A		+24/+20/+6/-6V STABIL. PC CARD
		WT	30	01	02A		+24/+20/+6/-6V STABIL. PC CARD
		WT	30	01	19A		+24/+20/+6/-6V STABIL. PC CARD
		WT	30	01	20A		+24/+20/+6/-6V STABIL. PC CARD
		WT	30	02	01A		MOVE STATUS PC CARD
		WT	30	02	01B		MOVE STATUS PC CARD
		WT	30	02	02A		MOVE STATUS PC CARD
		WT	30	02	02B		MOVE STATUS PC CARD
		WT	30	03	01A		COMMAND RECEIVER
		WT	30	03	01B		COMMAND RECEIVER
		WT	30	03	02A		COMMAND RECEIVER
		WT	30	03	02B		COMMAND RECEIVER
		WT	30	04	01A		COMMAND DECODER
		WT	30	04	01B		COMMAND DECODER
		WT	30	04	02A		COMMAND DECODER
(CONT.)		WT	30	04	02B		COMMAND DECODER
		WT	30	04	05B		COMMAND DECODER
		WT	30	05	01A		CAPSTAN SERVO PC CARD
		WT	30	05	02A		CAPSTAN SERVO PC CARD
		WT	30	06	01A		SPOOLING MOTOR CONTROL PC CARD
		WT	30	06	02A		SPOOLING MOTOR CONTROL PC CARD
		WT	30	07	01A		CONTACTOR PC CARD
		WT	30	07	02A		CONTACTOR PC CARD
		W	30	13	01	#	BUSS BAR NO 1
		L	35	26	01	@	CAPSTAN SPEED CONTROL CONNECTOR
		L	35	26	08	@	CAPSTAN SPEED CONTROL CONNECTOR
		L	36	27	30	@	MODE CONTROL CONNECTOR, REMOTE
		L	36	27	36	@	MODE CONTROL CONNECTOR, REMOTE
		L	37	28	24	@	EXTENDED MODE CONTROL, REMOTE
+ 0.0(1)	0	Y	02	05	60	N	RECTIFIER & CONNECTOR PC CARD
+ 0.0(2)	0	Y	02	05	73		RECTIFIER & CONNECTOR PC CARD
		Y	02	05	74		RECTIFIER & CONNECTOR PC CARD
		L	02	16	02	*	CHARGE CAPACITOR, +24.0 V (1)
		L	02	17	02		CHARGE CAPACITOR, +24.0 V (2)
+ 0.0(3)	0	Y	02	05	81		RECTIFIER & CONNECTOR PC CARD
		Y	02	05	82		RECTIFIER & CONNECTOR PC CARD
		L	02	19	01	*	CHARGE CAPACITOR, - 5.8 V
+ 0.0(4)	0	Y	02	05	93		RECTIFIER & CONNECTOR PC CARD
		Y	02	05	94		RECTIFIER & CONNECTOR PC CARD
		L	02	18	02	*	CHARGE CAPACITOR, + 5.8 V
+ 0.0(5)	0	WT	30	04	05B		COMMAND DECODER
		WT	30	04	06A		COMMAND DECODER
		WT	30	04	11A		COMMAND DECODER
		WT	30	04	13A		COMMAND DECODER
+ 0.0(6)	0	WT	24	05	01A		CONNECTOR TO ZERO-LOCATOR
		F	24	07	23		FEED TO ZERO-LOCATOR-SYSTEM
		M	29	02	23		CONNECTOR TO ZERO-LOCATOR
		WT	30	07	01A		CONTACTOR PC CARD
+ 0.0(7)	0	WT	24	05	02A		CONNECTOR TO ZERO-LOCATOR
		M	24	07	24		FEED TO ZERO-LOCATOR-SYSTEM
		F	29	02	24		CONNECTOR TO ZERO-LOCATOR
		WT	30	07	02A		CONTACTOR PC CARD
+ 5.8	5	L	02	05	20		RECTIFIER & CONNECTOR PC CARD
		M	02	21	09		TAPE DECK FEED CONNECTOR
		P	15	01	02	@	TAPE MOVE AND DIR. SENSOR
		P	20	01	09	@	TIMER FEED PC-CARD PLUG
		F	24	03	03	@	TIMER FEED 3-POLE MOLEX PLUG
		WT	24	05	25A	@	CONNECTOR TO ZERO-LOCATOR
		M	24	07	02		FEED TO ZERO-LOCATOR-SYSTEM
		F	25	01	09	@	POWER FEED FROM SUPPLY
		M	29	01	06	@	CONNECTOR TO AUDIO SECTION
		F	29	02	02	@	CONNECTOR TO ZERO-LOCATOR
		WT	30	01	25A		+24/+20/+6/-6V STABIL. PC CARD

./. ./.

SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT
(CONT.)		WT	30	02	25A		MOVE STATUS PC CARD
		WT	30	02	25B		MOVE STATUS PC CARD
		WT	30	03	25A		COMMAND RECEIVER
		WT	30	03	25B		COMMAND RECEIVER
		WT	30	04	25A		COMMAND DECODER
		WT	30	04	25B		COMMAND DECODER
		WT	30	05	25A		CAPSTAN SERVO PC CARD
		WT	30	06	25A		SPOOLING MOTOR CONTROL PC CARD
		WT	30	07	25A		CONTACTOR PC CARD
		W	30	15	01	#	BUSS BAR NO 3
		L	35	26	03	@	CAPSTAN SPEED CONTROL CONNECTOR
		L	36	27	32	@	MODE CONTROL CONNECTOR, REMOTE
+RP-TRSP	3	W	13	01	01		OPTICAL TAPE END SENSOR
		WT	30	02	03B		MOVE STATUS PC CARD
+0-TYPE	7	L	36	27	31	R	MODE CONTROL CONNECTOR, REMOTE
+10.0	8	L	02	05	19	*	RECTIFIER & CONNECTOR PC CARD
		F	02	21	03		TAPE DECK FEED CONNECTOR
		F	02	21	04		TAPE DECK FEED CONNECTOR
		M	25	01	03	<	POWER FEED FROM SUPPLY
		M	25	01	04	<	POWER FEED FROM SUPPLY
		WT	30	01	21A	#	+24/+20/+6/-6V STABIL. PC CARD
+10.0(0)	8	Y	02	05	91		RECTIFIER & CONNECTOR PC CARD
		Y	02	05	92		RECTIFIER & CONNECTOR PC CARD
		L	02	18	01	*	CHARGE CAPACITOR, + 5.8 V
+20.0	3	H	06	08	01		+20.0 V STABILIZER TRANSISTOR
		M	11	01	01	@	TAPE TENSION CONTROL ASSY, LEFT
		M	12	01	01	@	TAPE TENSION CONTROL ASSY, RIGHT
		M	21	C1	02	@	CUTTER CONTROL ASSEMBLY
		WT	30	01	09A		+24/+20/+6/-6V STABIL. PC CARD
		WT	30	01	10A		+24/+20/+6/-6V STABIL. PC CARD
		WT	30	C5	14A		CAPSTAN SERVO PC CARD
		WT	30	06	23A		SPOOLING MOTOR CONTROL PC CARD
		WT	30	07	17A		CONTACTOR PC CARD
+24.0	2	H	06	04	01	<	+24.0 V STABILIZER TRANSISTOR
		L	06	08	03	@	+20.0 V STABILIZER TRANSISTOR
		F	08	C1	01	@	BRAKE LIFT SOLENOID, LEFT
		F	09	01	01	@	BRAKE LIFT SOLENOID, RIGHT
		M	11	01	05	@	TAPE TENSION CONTROL ASSY, LEFT
		F	16	C1	C1	@	PRESSURE ROLLER ASSEMBLY
		P	20	01	04	@	TIMER FEED PC-CARD PLUG
		M	29	01	21	@	CONNECTOR TO AUDIO SECTION
		WT	30	C1	11A		+24/+20/+6/-6V STABIL. PC CARD
		WT	30	01	12A		+24/+20/+6/-6V STABIL. PC CARD
		WT	30	02	23A		MOVE STATUS PC CARD
		WT	30	C2	23B		MOVE STATUS PC CARD
		WT	30	03	23A		COMMAND RECEIVER
		WT	30	03	23B		COMMAND RECEIVER
		WT	30	C4	23A		COMMAND DECODER
		WT	30	04	23B		COMMAND DECODER
		WT	30	C5	23A		CAPSTAN SERVO PC CARD
(CONT.)		WT	30	07	03A		CONTACTOR PC CARD
		WT	30	07	04A		CONTACTOR PC CARD
		WT	30	07	23A		CONTACTOR PC CARD
		WL	30	16	01	#	BUSS BAR NO 4
		L	35	26	C2	@	CAPSTAN SPEED CONTROL CONNECTOR
		G	36	11	01	@	TIME ELAPSE METER FEED
		L	36	27	12	@	MODE CONTROL CONNECTOR, REMOTE
		L	36	27	18	@	MODE CONTROL CONNECTOR, REMOTE
+24.0(1)	2	WT	24	05	23A		CONNECTOR TO ZERO-LOCATOR
		F	24	07	03		FEED TO ZERO-LOCATOR-SYSTEM
		M	29	02	03		CONNECTOR TO ZERO-LOCATOR
		WT	30	07	23A		CONTACTOR PC CARD
+31.0	9	L	02	05	17		RECTIFIER & CONNECTOR PC CARD
		M	02	21	01		TAPE DECK FEED CONNECTOR
		L	06	04	03		+24.0 V STABILIZER TRANSISTOR
		F	25	01	01	<	POWER FEED FROM SUPPLY
		WT	30	01	06A	#	+24/+20/+6/-6V STABIL. PC CARD
+31.0(N)	9	L	02	05	17		RECTIFIER & CONNECTOR PC CARD
		M	02	21	02		TAPE DECK FEED CONNECTOR
		L	06	04	03		+24.0 V STABILIZER TRANSISTOR
		F	25	01	02	<	POWER FEED FROM SUPPLY
		WT	30	01	05A	#	+24/+20/+6/-6V STABIL. PC CARD
+31.0(0)	9	Y	02	05	71		RECTIFIER & CONNECTOR PC CARD
		Y	02	05	72		RECTIFIER & CONNECTOR PC CARD
		L	02	16	01	*	CHARGE CAPACITOR, +24.0 V (1)
		L	02	17	01		CHARGE CAPACITOR, +24.0 V (2)
- 5.8	6	M	18	01	06	@	CAPSTAN MOTOR ASSEMBLY
		P	20	01	01	@	TIMER FEED PC-CARD PLUG
		P	22	01	03	@	TAPE END SENSOR LEFT
		P	23	01	03	@	TAPE END SENSOR RIGHT
		WT	24	05	24A		CONNECTOR TO ZERO-LOCATOR
		M	24	07	01		FEED TO ZERO-LOCATOR-SYSTEM
		F	29	01	02	@	CONNECTOR TO AUDIO SECTION
		F	29	02	01	@	CONNECTOR TO ZERO-LOCATOR
		WT	30	01	14A		+24/+20/+6/-6V STABIL. PC CARD
		WT	30	02	24A		MOVE STATUS PC CARD
		WT	30	02	24B		MOVE STATUS PC CARD
		WT	30	03	24A		COMMAND RECEIVER
		WT	30	03	24B		COMMAND RECEIVER
		WT	30	04	24A		COMMAND DECODER
		WT	30	04	24B		COMMAND DECODER
		WT	30	05	24A		CAPSTAN SERVO PC CARD
		WT	30	06	24A		SPOOLING MOTOR CONTROL PC CARD
		WT	30	07	24A		CONTACTOR PC CARD
		W	30	14	01	*	BUSS BAR NO 2
		L	35	26	10	@	CAPSTAN SPEED CONTROL CONNECTOR
		L	36	27	15	@	MODE CONTROL CONNECTOR, REMOTE
-RP-TRSP	8	M	13	01	03		OPTICAL TAPE END SENSOR
		WT	30	02	22B		MOVE STATUS PC CARD

./.

SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT
-10.0	6	L	02	05	18		RECTIFIER & CONNECTOR PC CARD
		F	02	21	05		TAPE DECK FEED CONNECTOR
		M	25	01	05		POWER FEED FROM SUPPLY
		WT	30	01	18A		+24/+20/+6/-6V STABIL. PC CARD
-10.0(0)	6	Y	02	05	83		RECTIFIER & CONNECTOR PC CARD
		Y	02	05	84		RECTIFIER & CONNECTOR PC CARD
		L	02	19	02	*	CHARGE CAPACITOR, - 5.8 V
AC1	6	Y	02	05	40		RECTIFIER & CONNECTOR PC CARD
		F	02	20	01		AUDIO ELECTRONICS FEED CONNECTOR
AC2	7	Y	02	05	41		RECTIFIER & CONNECTOR PC CARD
		F	02	20	02		AUDIO ELECTRONICS FEED CONNECTOR
AC3	4	Y	02	05	44		RECTIFIER & CONNECTOR PC CARD
		M	02	20	03		AUDIO ELECTRONICS FEED CONNECTOR
AC4	3	Y	02	05	45		RECTIFIER & CONNECTOR PC CARD
		F	02	20	04		AUDIO ELECTRONICS FEED CONNECTOR
B-CUT	6	P	19	01	02		COMMAND SWITCHES, LOCAL
		M	29	01	17		CONNECTOR TO AUDIO SECTION
		WT	30	02	08A		MOVE STATUS PC CARD
		WT	30	04	16B		COMMAND DECODER
		L	36	27	07		MODE CONTROL CONNECTOR, REMOTE
B-FAD	1	WT	30	04	15B		COMMAND DECODER
		L	36	27	1C		MODE CONTROL CONNECTOR, REMOTE
B-FORW	3	P	19	01	06		COMMAND SWITCHES, LOCAL
		WT	30	C4	08A		COMMAND DECODER
		WT	30	06	05A		SPOOLING MOTOR CONTROL PC CARD
		L	36	27	03		MODE CONTROL CONNECTOR, REMOTE
P-INDIC	9	P	19	01	01		COMMAND SWITCHES, LOCAL
		WT	30	07	21A		CONTACTOR PC CARD
		L	36	27	01		MODE CONTROL CONNECTOR, REMOTE
B-MONO	7	M	29	01	24		CONNECTOR TO AUDIO SECTION
		WT +	30	C6	05B		SPOOLING MOTOR CONTROL PC CARD
		L	36	27	08		MODE CONTROL CONNECTOR, REMOTE
B-REC	5	P	19	C1	03		COMMAND SWITCHES, LOCAL
		WT	30	04	10B		COMMAND DECODER
		L	36	27	06		MODE CONTROL CONNECTOR, REMOTE
B-REPR	4	P	19	01	05		COMMAND SWITCHES, LOCAL
		WT	30	03	09A		COMMAND RECEIVER
		WT	30	04	08B	*	COMMAND DECODER
		L	36	27	04		MODE CONTROL CONNECTOR, REMOTE
B-REW	2	P	19	01	07		COMMAND SWITCHES, LOCAL
		WT	30	C4	14B		COMMAND DECODER
		WT	30	06	17A		SPOOLING MOTOR CONTROL PC CARD
		L	36	27	02		MODE CONTROL CONNECTOR, REMOTE
B-STOP	1	P	19	01	04	@	COMMAND SWITCHES, LOCAL
		WT	24	05	18A		CONNECTOR TO ZERO-LOCATOR
		F	24	07	22		FEED TO ZERO-LOCATOR-SYSTEM
		F	29	01	22	@	CONNECTOR TO AUDIO SECTION
		M	29	02	22		CONNECTOR TO ZERO-LOCATOR
		WT	30	04	13B		COMMAND DECODER
		WT	3C	04	14A		COMMAND DECODER
		L	36	27	05		MODE CONTROL CONNECTOR, REMOTE
B-TRSP	7	F	13	01	05		OPTICAL TAPE END SENSOR
		WT	30	02	22A		MOVE STATUS PC CARD
B-ZLOCAT	8	WT	24	05	22A		CONNECTOR TO ZERO-LOCATOR
		M	24	07	11		FEED TO ZERO-LOCATOR-SYSTEM
		F	29	02	11		CONNECTOR TO ZERO-LOCATOR
BCD2**0	1	N	24	02	02		TIMER FEED 11-POLE CIS PLUG
		WT	24	05	03A		CONNECTOR TO ZERO-LOCATOR
BCD2**1	2	N	24	02	03		TIMER FEED 11-POLE CIS PLUG
		WT	24	05	04A		CONNECTOR TO ZERO-LOCATOR
BCD2**2	3	N	24	02	04		TIMER FEED 11-POLE CIS PLUG
		WT	24	05	05A		CONNECTOR TO ZERO-LOCATOR
BCD2**3	4	N	24	02	05		TIMER FEED 11-POLE CIS PLUG
		WT	24	05	06A		CONNECTOR TO ZERO-LOCATOR
C-M1-2	5	L	06	06	02		SUPPLY MOTOR CAPACITOR, ADD.
		L	06	22	02		SUPPLY MOTOR CAPACITOR, MAIN
		F	07	01	05		SUPPLY MOTOR (M1)
		WT +	30	07	14A	#	CONTACTOR PC CARD
C-M2-2	8	L	06	01	02		TAKE-UP MOTOR CAPACITOR, ADD.
		L	06	20	02		TAKE-UP MOTOR CAPACITOR, MAIN
		F	10	01	03		TAKE-UP MOTOR (M2)
		WT +	30	07	09A	#	CONTACTOR PC CARD
C-M3-2	2	L	06	21	02		CAPSTAN MOTOR CAPACITOR
		M	18	01	03		CAPSTAN MOTOR ASSEMBLY
		WT +	30	05	15A	#	CAPSTAN SERVO PC CARD
CMD.ENB2	4	WT	30	04	16A		COMMAND DECODER
		L	37	28	13		EXTENDED MODE CONTROL, REMOTE
CTRL-REC		WT	30	03	10B		COMMAND RECEIVER
		WT	3C	04	10A		COMMAND DECODER
D-ZLOCAT	4	M	24	03	01		TIMER FEED 3-POLE MOLEX PLUG
		WT	24	05	21A		CONNECTOR TO ZERO-LOCATOR
DIG10**0	9	N	24	02	10		TIMER FEED 11-POLE CIS PLUG
		WT	24	05	09A		CONNECTOR TO ZERO-LOCATOR
DIG10**1	8	N	24	02	09		TIMER FEED 11-POLE CIS PLUG
		WT	24	05	10A		CONNECTOR TO ZERO-LOCATOR

SIG.NAME	COLOR	TYPE	GR EL PT	S	DESCRIPTION OF ELEMENT
F(+ 5.8)	2	L	02 05 95		RECTIFIER & CONNECTOR PC CARD
		L	02 14 01		FUSE, + 5.8 V
F(+24.0)	9	L	02 05 75		RECTIFIER & CONNECTOR PC CARD
		L	02 15 01		FUSE, +24.0 V
F(- 5.8)	6	L	02 05 85		RECTIFIER & CONNECTOR PC CARD
		L	02 13 01		FUSE, - 5.8 V
F-LINE2	7	L	01 04 01		MAIN FUSE, TAPE DECK
		Z	01 05 02	*	MAINS FILTER
F-M1	4	L	02 05 10		RECTIFIER & CONNECTOR PC CARD
		F	02 21 23		TAPE DECK FEED CONNECTOR
		M	25 01 23		POWER FEED FROM SUPPLY
		WT	30 07 13A		CONTACTOR PC CARD
F-M1(0)	4	L	02 05 61		RECTIFIER & CONNECTOR PC CARD
		L	02 10 01		FUSE, SUPPLY MOTOR
F-M2	9	L	02 05 09		RECTIFIER & CONNECTOR PC CARD
		F	02 21 21		TAPE DECK FEED CONNECTOR
		M	25 01 21		POWER FEED FROM SUPPLY
		WT	30 07 07A		CONTACTOR PC CARD
F-M2(0)	5	L	02 05 66		RECTIFIER & CONNECTOR PC CARD
		L	02 11 01		FUSE, TAKE-UP MOTOR
F-M3	5	L	02 05 15		RECTIFIER & CONNECTOR PC CARD
		F	02 21 19		TAPE DECK FEED CONNECTOR
		M	25 01 19		POWER FEED FROM SUPPLY
		WT	30 05 17A		CAPSTAN SERVO PC CARD
F-M3(0)	8	L	02 05 68		RECTIFIER & CONNECTOR PC CARD
		L	02 12 01		FUSE, CAPSTAN
FAD-1	8	WT	30 04 20A		COMMAND DECODER
		L	36 27 11		MODE CONTROL CONNECTOR, REMOTE
FAD-2	9	WT	30 04 21A		COMMAND DECODER
		L	36 27 29		MODE CONTROL CONNECTOR, REMOTE
FL-LINE1	6	Z	01 05 01		MAINS FILTER
		L	01 09 01		POWER INPUT CONNECTOR
FL-LINE2	7	L	01 04 02		MAIN FUSE, TAPE DECK
		L	01 09 02		POWER INPUT CONNECTOR
GND MAIN	4/5	L	01 09 03		POWER INPUT CONNECTOR
GROUND	4/5	L	01 02 01	*	GROUND POST, EXTERNAL
		K	01 05 03		MAINS FILTER
		F	01 08 05		POWER FEED CONNECTOR, MAINS
		M	02 01 05		POWER INPUT FEED CONNECTOR
		LS	02 06 01		GROUND CHASSIS CONNECTION
K-BLIFT	3	F	08 01 02	@	BRAKE LIFT SOLENOID, LEFT
		F	09 01 02		BRAKE LIFT SOLENOID, RIGHT
		WT	30 04 18B		COMMAND DECODER
		WT	30 06 14A		SPOOLING MOTOR CONTROL PC CARD
		G	36 11 02		TIME ELAPSE METER FEED
K-BRAKE		WT	30 04 09B		COMMAND DECODER
		WT	30 07 15A		CONTACTOR PC CARD
K-CUT	5	M	16 01 04		PRESSURE ROLLER ASSEMBLY
		WT	30 04 19B		COMMAND DECODER
K-CUT-2		WT	30 04 17B	R	COMMAND DECODER
K-PRESS	8	M	16 01 02	@	PRESSURE ROLLER ASSEMBLY
		M	29 01 23		CONNECTOR TO AUDIO SECTION
		WT	30 04 09A		COMMAND DECODER
		WT	30 05 05B		CAPSTAN SERVO PC CARD
		WT	30 06 10A		SPOOLING MOTOR CONTROL PC CARD
		L	37 28 02		EXTENDED MODE CONTROL, REMOTE
K-RESET	1	P	20 01 03		TIMER FEED PC-CARD PLUG
		WT +	30 06 13B		SPOOLING MOTOR CONTROL PC CARD
		L	36 27 33		MODE CONTROL CONNECTOR, REMOTE
K-TT	9	M	12 01 04		TAPE TENSION CONTROL ASSY, RIGHT
		WT	30 04 20B		COMMAND DECODER
K-TT1/2	7	M	11 01 04		TAPE TENSION CONTROL ASSY, LEFT
		M	12 01 05		TAPE TENSION CONTROL ASSY, RIGHT
		WT +	30 06 18B	#	SPOOLING MOTOR CONTROL PC CARD
LINE1	6	Z	01 05 01'		MAINS FILTER
		F	01 08 01		POWER FEED CONNECTOR, MAINS
		M	02 01 01		POWER INPUT FEED CONNECTOR
		F	02 08 01		POWER SWITCH FEED, RECEPTACLE
		M	03 01 01		EXTENSION CABLE, SUPPLY SIDE
		F	03 02 01		EXTENSION CABLE, SWITCH SIDE
		M	04 01 01		POWER SWITCH FEED, JACK
		L	04 02 01		POWER SWITCH, REAR
LINE2	8	Z	01 05 02'		MAINS FILTER
		F	01 08 03		POWER FEED CONNECTOR, MAINS
		M	02 01 03		POWER INPUT FEED CONNECTOR
		F	02 08 02		POWER SWITCH FEED, RECEPTACLE
		M	03 01 02		EXTENSION CABLE, SUPPLY SIDE
		F	03 02 02		EXTENSION CABLE, SWITCH SIDE
		M	04 01 02		POWER SWITCH FEED, JACK
		L	04 03 01		POWER SWITCH, FRONT
LOC-IN	5	P	19 01 15		COMMAND SWITCHES, LOCAL
		M	21 01 05		CUTTER CONTROL ASSEMBLY
		WT +	30 06 11B	#	SPOOLING MOTOR CONTROL PC CARD
		WT +	30 06 12B		SPOOLING MOTOR CONTROL PC CARD
LOC-IN'	5	WT +	30 06 12B	#	SPOOLING MOTOR CONTROL PC CARD

./.

SIG.NAME	COLOR	TYPE	GR EL PT	S	DESCRIPTION OF ELEMENT
(CONT.)		L	36 27 19		MODE CONTROL CONNECTOR, REMOTE
		L	37 28 01		EXTENDED MODE CONTROL, REMOTE
MOD-1	3	F	29 01 08		CONNECTOR TO AUDIO SECTION
		WT +	30 06 15B		SPOOLING MOTOR CONTROL PC CARD
		L	37 28 04		EXTENDED MODE CONTROL, REMOTE
MOD-2	8	F	29 01 16		CONNECTOR TO AUDIO SECTION
		WT +	30 06 16B		SPOOLING MOTOR CONTROL PC CARD
		L	37 28 03		EXTENDED MODE CONTROL, REMOTE
M1-1	1	F	07 01 01		SUPPLY MOTOR (M1)
		WT	30 07 12A		CONTACTOR PC CARD
M1-2	4	L	06 06 01		SUPPLY MOTOR CAPACITOR, ADD.
		L	06 22 01		SUPPLY MOTOR CAPACITOR, MAIN
		F	07 01 03		SUPPLY MOTOR (M1)
		WT	30 07 10A	#	CONTACTOR PC CARD
M2-1	6	F	10 01 01		TAKE-UP MOTOR (M2)
		WT	30 07 08A		CONTACTOR PC CARD
M2-2	7	L	06 01 01		TAKE-UP MOTOR CAPACITOR, ADD.
		L	06 20 01		TAKE-UP MOTOR CAPACITOR, MAIN
		F	10 01 05		TAKE-UP MOTOR (M2)
		WT	30 07 06A	#	CONTACTOR PC CARD
M3-1	6	M	18 01 01		CAPSTAN MOTOR ASSEMBLY
		WT	30 05 18A		CAPSTAN SERVO PC CARD
QP-DIR1	8	P	15 01 05		TAPE MOVE AND DIR. SENSOR
		WT	30 02 03A		MOVE STATUS PC CARD
QP-DIR2	7	P	15 01 03		TAPE MOVE AND DIR. SENSOR
		WT	30 02 04A		MOVE STATUS PC CARD
QPWR1-1	2	L	06 12 01		SUPPLY MOTOR TRANSISTOR PAIR
		WT	30 06 22A		SPOOLING MOTOR CONTROL PC CARD
QPWR1-2	5	L	06 12 02		SUPPLY MOTOR TRANSISTOR PAIR
		WT	30 06 21A		SPOOLING MOTOR CONTROL PC CARD
QPWR1-3	8	L	06 12 03		SUPPLY MOTOR TRANSISTOR PAIR
		WT	30 06 20A		SPOOLING MOTOR CONTROL PC CARD
QPWR2-1	1	L	06 05 01		TAKE-UP MOTOR TRANSISTOR PAIR
		WT	30 06 03A		SPOOLING MOTOR CONTROL PC CARD
QPWR2-2	4	L	06 05 02		TAKE-UP MOTOR TRANSISTOR PAIR
		WT	30 06 04A		SPOOLING MOTOR CONTROL PC CARD
QPWR2-3	9	L	06 05 03		TAKE-UP MOTOR TRANSISTOR PAIR
		WT	30 06 08A		SPOOLING MOTOR CONTROL PC CARD
QPWR3-1	4	H	06 11 01		CAPSTAN MOTOR CONTROL TRANSISTOR
		WT	30 05 22A		CAPSTAN SERVO PC CARD
QPWR3-2	9	H	06 11 02		CAPSTAN MOTOR CONTROL TRANSISTOR
		WT	30 05 21A		CAPSTAN SERVO PC CARD
QPWR3-3	7	L	06 11 03		CAPSTAN MOTOR CONTROL TRANSISTOR
		WT	30 05 20A		CAPSTAN SERVO PC CARD
QPWR4-1	1	H	06 10 01		- 5.8 V STABILIZER TRANSISTOR
		WT	30 01 17A		+24/+20/+6/-6V STABIL. PC CARD
QPWR4-2	8	H	06 10 02		- 5.8 V STABILIZER TRANSISTOR
		WT	30 01 16A		+24/+20/+6/-6V STABIL. PC CARD
QPWR4-3	6	L	06 10 03		- 5.8 V STABILIZER TRANSISTOR
		WT	30 01 15A		+24/+20/+6/-6V STABIL. PC CARD
QPWR5-1	5	H	06 09 01		+ 5.8 V STABILIZER TRANSISTOR
		WT	30 01 24A		+24/+20/+6/-6V STABIL. PC CARD
QPWR5-2	7	H	06 09 02		+ 5.8 V STABILIZER TRANSISTOR
		WT	30 01 23A		+24/+20/+6/-6V STABIL. PC CARD
QPWR5-3	9	L	06 09 03		+ 5.8 V STABILIZER TRANSISTOR
		WT	30 01 22A		+24/+20/+6/-6V STABIL. PC CARD
QPWR6-2	6	H	06 08 02		+20.0 V STABILIZER TRANSISTOR
		WT	30 01 03A		+24/+20/+6/-6V STABIL. PC CARD
QPWR7-2	1	H	06 04 02		+24.0 V STABILIZER TRANSISTOR
		WT	30 01 07A		+24/+20/+6/-6V STABIL. PC CARD
		WT	30 01 08A		+24/+20/+6/-6V STABIL. PC CARD
R-CUT-1	5	M	21 01 01		CUTTER CONTROL ASSEMBLY
		WT	30 06 15A		SPOOLING MOTOR CONTROL PC CARD
		L	37 28 14		EXTENDED MODE CONTROL, REMOTE
R-CUT-3	7	F	21 01 03		CUTTER CONTROL ASSEMBLY
		WT	30 06 13A		SPOOLING MOTOR CONTROL PC CARD
		L	37 28 15		EXTENDED MODE CONTROL, REMOTE
R-SPLY-0	7	WT	30 05 07A		CAPSTAN SERVO PC CARD
		L	35 26 13		CAPSTAN SPEED CONTROL CONNECTOR
R-SPLY-1	7	WT	30 05 13A		CAPSTAN SERVO PC CARD
		L	35 26 05		CAPSTAN SPEED CONTROL CONNECTOR
R-TT1	1	M	11 01 02		TAPE TENSION CONTROL ASSY, LEFT
		WT	30 06 16A		SPOOLING MOTOR CONTROL PC CARD
R-TT2	2	M	12 01 02		TAPE TENSION CONTROL ASSY, RIGHT
		WT	30 06 09A		SPOOLING MOTOR CONTROL PC CARD
		WT	30 07 18A		CONTACTOR PC CARD
RECSTINH	9	F	29 01 07		CONNECTOR TO AUDIO SECTION
		WT	30 03 14A		COMMAND RECEIVER
		L	37 28 23		EXTENDED MODE CONTROL, REMOTE

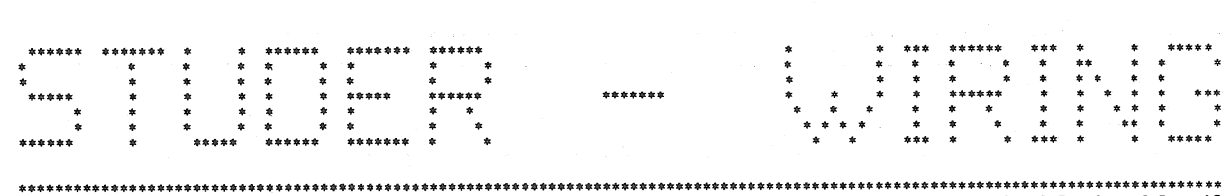
SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT
S-CAPEXT	8	F	29	01	03		CONNECTOR TO AUDIO SECTION
		WT	30	05	1CA		CAPSTAN SERVO PC CARD
		L	35	26	04		CAPSTAN SPEED CONTROL CONNECTOR
S-CUT	6	P	19	01	13		COMMAND SWITCHES, LOCAL
		WT	30	03	18A		COMMAND RECEIVER
		L	36	27	25		MODE CONTROL CONNECTOR, REMOTE
S-CUTAUT	1	M	21	01	04		CUTTER CONTROL ASSEMBLY
		WT	30	04	17A		COMMAND DECODER
		L	37	28	16		EXTENDED MODE CONTROL, REMOTE
S-FORW	3	P	19	01	10		COMMAND SWITCHES, LOCAL
		WT	24	05	14A	@	CONNECTOR TO ZERO-LOCATOR
		F	24	07	08		FEED TO ZERO-LOCATOR-SYSTEM
		M	29	02	08		CONNECTOR TO ZERO-LOCATOR
		WT	30	03	19A	#	COMMAND RECEIVER
		L	36	27	21		MODE CONTROL CONNECTOR, REMOTE
S-LINE1	2	L	02	02	01	*	VOLTAGE SELECTOR TERMINAL BLOCK
		L	02	04	01		POWER TRANSFORMER
		F	02	08	05		POWER SWITCH FEED, RECEPTACLE
		M	03	01	05		EXTENSION CABLE, SUPPLY SIDE
		F	03	02	05		EXTENSION CABLE, SWITCH SIDE
		M	04	01	05		POWER SWITCH FEED, JACK
		L	04	02	03		POWER SWITCH, REAR
S-LINE2	9	L	02	02	08	*	VOLTAGE SELECTOR TERMINAL BLOCK
		L	02	04	08		POWER TRANSFORMER
		F	02	08	04		POWER SWITCH FEED, RECEPTACLE
		M	03	01	04		EXTENSION CABLE, SUPPLY SIDE
		F	03	02	04		EXTENSION CABLE, SWITCH SIDE
		M	04	01	04		POWER SWITCH FEED, JACK
		L	04	03	03		POWER SWITCH, FRONT
S-LOW	5	L	04	04	02		TAPE SPEED SELECTOR SWITCH
		F	04	05	02		SPEED SELECTOR FEED, JACK
		M	05	C1	02		SPEED SELECTOR, CABLE PLUG
		WT +	30	06	09B		SPOOLING MOTOR CONTROL PC CARD
		L	37	28	21		EXTENDED MODE CONTROL, REMOTE
S-MONO	1	F	29	01	10		CONNECTOR TO AUDIO SECTION
		WT +	30	06	07B	#	SPOOLING MOTOR CONTROL PC CARD
		L	36	27	26		MODE CONTROL CONNECTOR, REMOTE
		L	37	28	22		EXTENDED MODE CONTROL, REMOTE
S-REC	5	P	19	01	12		COMMAND SWITCHES, LOCAL
		WT	30	03	13A		COMMAND RECEIVER
		L	36	27	24		MODE CONTROL CONNECTOR, REMOTE
S-REPR	4	P	19	01	11		COMMAND SWITCHES, LOCAL
		WT	30	03	16A		COMMAND RECEIVER
		L	36	27	22		MODE CONTROL CONNECTOR, REMOTE
S-RES2	3	WT	30	04	22A		COMMAND DECODER
		L	37	28	11		EXTENDED MODE CONTROL, REMOTE
S-REW	2	P	19	01	09		COMMAND SWITCHES, LOCAL
		WT	24	05	16A	@	CONNECTOR TO ZERO-LOCATOR
		F	24	07	19		FEED TO ZERO-LOCATOR-SYSTEM
		M	29	02	19		CONNECTOR TO ZERO-LOCATOR
		WT	30	03	17A	#	COMMAND RECEIVER
		L	36	27	20		MODE CONTROL CONNECTOR, REMOTE
S-STOP	1	P	19	01	08		COMMAND SWITCHES, LOCAL
		WT	24	05	20A	@	CONNECTOR TO ZERO-LOCATOR
		F	24	07	20		FEED TO ZERO-LOCATOR-SYSTEM
		M	29	02	20		CONNECTOR TO ZERO-LOCATOR
		WT	30	03	15A	#	COMMAND RECEIVER
		L	36	27	23		MODE CONTROL CONNECTOR, REMOTE
S-TT	4	M	16	01	05	R	PRESSURE ROLLER ASSEMBLY
S-ZLOCAT	7	M	24	03	02		TIMER FEED 3-POLE MOLEX PLUG
		WT	24	05	17A		CONNECTOR TO ZERO-LOCATOR
		M	24	07	21		FEED TO ZERO-LOCATOR-SYSTEM
		F	29	02	21		CONNECTOR TO ZERO-LOCATOR
		WT +	30	06	19B		SPOOLING MOTOR CONTROL PC CARD
		L	36	27	28		MODE CONTROL CONNECTOR, REMOTE
SCREEN	0	LS	02	03	01		SCREEN CHASSIS CONNECTION
		L	02	04	09		POWER TRANSFORMER
SPD-CTL1	9	F	29	01	05		CONNECTOR TO AUDIO SECTION
		WT	30	05	12A		CAPSTAN SERVO PC CARD
		L	35	26	12		CAPSTAN SPEED CONTROL CONNECTOR
SPD-CTL2	1	WT	30	05	08A		CAPSTAN SERVO PC CARD
		L	35	26	14		CAPSTAN SPEED CONTROL CONNECTOR
T- 2	0	L	02	02	05		VOLTAGE SELECTOR TERMINAL BLOCK
		L	02	04	02		POWER TRANSFORMER
T- 3	8	L	02	02	06		VOLTAGE SELECTOR TERMINAL BLOCK
		L	02	04	03		POWER TRANSFORMER
T- 4	3	L	02	02	07		VOLTAGE SELECTOR TERMINAL BLOCK
		L	02	04	04		POWER TRANSFORMER
T- 5	1	L	02	02	02		VOLTAGE SELECTOR TERMINAL BLOCK
		L	02	04	05		POWER TRANSFORMER
T- 6	4	L	02	02	03		VOLTAGE SELECTOR TERMINAL BLOCK
		L	02	04	06		POWER TRANSFORMER
T- 7	6	L	02	02	04		VOLTAGE SELECTOR TERMINAL BLOCK
		L	02	04	07		POWER TRANSFORMER
T-M1	1	L	02	05	11		RECTIFIER & CONNECTOR PC CARD
		F	02	21	24		TAPE DECK FEED CONNECTOR
		M	25	01	24		POWER FEED FROM SUPPLY
		WT	30	06	18A		SPOOLING MOTOR CONTROL PC CARD

SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT
T-M2	6	L	02	05	16		RECTIFIER & CONNECTOR PC CARD
		F	02	21	22		TAPE DECK FEED CONNECTOR
		M	25	01	22		POWER FEED FROM SUPPLY
		WT	30	06	06A		SPOOLING MOTOR CONTROL PC CARD
T-M3	7(1)	L	02	05	21		RECTIFIER & CONNECTOR PC CARD
		F	02	21	20		TAPE DECK FEED CONNECTOR
		L	06	21	01		CAPSTAN MOTOR CAPACITOR
		M	18	01	02		CAPSTAN MOTOR ASSEMBLY
		M	25	01	20		POWER FEED FROM SUPPLY
		WT +	30	05	16A	#	CAPSTAN SERVO PC CARD
T-10	0	L	02	04	10		POWER TRANSFORMER
		L	02	15	02		FUSE, +24.0 V
T-11	0	L	02	04	11		POWER TRANSFORMER
		L	02	05	76		RECTIFIER & CONNECTOR PC CARD
T-12	2	L	02	04	12		POWER TRANSFORMER
		L	02	14	02		FUSE, + 5.8 V
T-13	2	L	02	04	13		POWER TRANSFORMER
		L	02	05	96		RECTIFIER & CONNECTOR PC CARD
T-14	6	L	02	04	14		POWER TRANSFORMER
		L	02	13	02		FUSE, - 5.8 V
T-15	6	L	02	04	15		POWER TRANSFORMER
		L	02	05	86		RECTIFIER & CONNECTOR PC CARD
T-16	4	L	02	04	16		POWER TRANSFORMER
		L	02	10	02		FUSE, SUPPLY MOTOR
T-17	4	L	02	04	17		POWER TRANSFORMER
		L	02	05	62		RECTIFIER & CONNECTOR PC CARD
T-17/18	1	Y	02	05	77		RECTIFIER & CONNECTOR PC CARD
		L	02	05	78		RECTIFIER & CONNECTOR PC CARD
T-18	5	L	02	04	18		POWER TRANSFORMER
		L	02	05	63		RECTIFIER & CONNECTOR PC CARD
T-19	5	L	02	04	19		POWER TRANSFORMER
		L	02	11	02		FUSE, TAKE-UP MOTOR
T-20	8	L	02	04	20		POWER TRANSFORMER
		L	02	05	64		RECTIFIER & CONNECTOR PC CARD
T-20/21	6	Y	02	05	79		RECTIFIER & CONNECTOR PC CARD
		L	02	05	80		RECTIFIER & CONNECTOR PC CARD
T-21	6	L	02	04	21		POWER TRANSFORMER
		L	02	05	65		RECTIFIER & CONNECTOR PC CARD
T-22	8	L	02	04	22		POWER TRANSFORMER
		L	02	12	02		FUSE, CAPSTAN
T-23	8	L	02	04	23		POWER TRANSFORMER
		L	02	05	67		RECTIFIER & CONNECTOR PC CARD
T-24	0	L	02	04	24		POWER TRANSFORMER (ST)
		L	02	05	51		RECTIFIER & CONNECTOR PC CARD
T-25	0	L	02	04	25		POWER TRANSFORMER (ST)
		L	02	05	52		RECTIFIER & CONNECTOR PC CARD
T-26	1	L	02	04	26		POWER TRANSFORMER (ST)
		L	02	05	53		RECTIFIER & CONNECTOR PC CARD
T-27	1	L	02	04	27		POWER TRANSFORMER (ST)
		L	02	05	54		RECTIFIER & CONNECTOR PC CARD
T-28	2	L	02	04	28		POWER TRANSFORMER (ST)
		L	02	05	55		RECTIFIER & CONNECTOR PC CARD
T-29	2	L	02	04	29		POWER TRANSFORMER (ST)
		L	02	05	56		RECTIFIER & CONNECTOR PC CARD
T-30	9	L	02	04	30		POWER TRANSFORMER (ST)
		L	02	05	57		RECTIFIER & CONNECTOR PC CARD
T-31	9	L	02	04	31		POWER TRANSFORMER (ST)
		L	02	05	58		RECTIFIER & CONNECTOR PC CARD
TT1-ACT	3	P	22	01	04		TAPE END SENSOR LEFT
		WT	30	03	22A		COMMAND RECEIVER
		L	37	28	19		EXTENDED MODE CONTROL, REMOTE
TT2-ACT	8	P	23	01	04		TAPE END SENSOR RIGHT
		WT	30	03	21A	*	COMMAND RECEIVER
		WT	30	06	11A		SPOOLING MOTOR CONTROL PC CARD
		L	37	28	20		EXTENDED MODE CONTROL, REMOTE
Y-ACCEL	6	M	16	01	03		PRESSURE ROLLER ASSEMBLY
		WT	30	06	10B		SPOOLING MOTOR CONTROL PC CARD
Y-CLK	3	P	20	01	05		TIMER FEED PC-CARD PLUG
		WT	30	02	17A		MOVE STATUS PC CARD
		L	36	27	34		MODE CONTROL CONNECTOR, REMOTE
Y-END	3	F	29	01	15		CONNECTOR TO AUDIO SECTION
		WT	30	02	07A		MOVE STATUS PC CARD
Y-FLASH		WT	30	07	20A	N	CONTACTOR PC CARD
Y-FORW	6	P	20	01	08		TIMER FEED PC-CARD PLUG
		WT	30	02	09A		MOVE STATUS PC CARD
		L	36	27	17		MODE CONTROL CONNECTOR, REMOTE
Y-HIGH	4	WT	24	05	11A		CONNECTOR TO ZERO-LOCATOR
		F	24	07	05		FEED TO ZERO-LOCATOR-SYSTEM
		M	29	02	05		CONNECTOR TO ZERO-LOCATOR
		WT	30	02	08B		MOVE STATUS PC CARD

SIG.NAME	CCLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT
Y-ICLK	5	P	20	01	07		TIMER FEED PC-CARD PLUG
		WT	30	02	14A		MOVE STATUS PC CARD
		L	36	27	35		MODE CONTROL CONNECTOR, REMOTE
Y-LOW	5	F	29	01	19		CONNECTOR TO AUDIO SECTION
		WT	30	02	19A		MOVE STATUS PC CARD
		WT	30	05	11A		CAPSTAN SERVO PC CARD
		L	37	28	09		EXTENDED MODE CONTROL, REMOTE
Y-MONO	9	F	29	01	01		CONNECTOR TO AUDIO SECTION
		WT +	30	06	03B		SPOOLING MOTOR CONTROL PC CARD
		L	37	28	10		EXTENDED MODE CONTROL, REMOTE
Y-MOVE-0	9	WT	30	02	21B		MOVE STATUS PC CARD
		L	36	27	14		MODE CONTROL CONNECTOR, REMOTE
Y-MOVE-1	8	WT	30	02	1CA		MOVE STATUS PC CARD
		L	36	27	13		MODE CONTROL CONNECTOR, REMOTE
Y-MUTE	4	F	29	01	2C		CONNECTOR TO AUDIO SECTION
		WT	30	01	13A		+24/+20/+6/-6V STABIL. PC CARD
		L	36	27	27		MODE CONTROL CONNECTOR, REMOTE
Y-OUT1	4	F	29	01	04		CONNECTOR TO AUDIO SECTION
		WT	30	05	09A		CAPSTAN SERVO PC CARD
		L	35	26	07		CAPSTAN SPEED CONTROL CONNECTOR
Y-REC	6	F	29	01	11		CONNECTOR TO AUDIO SECTION
		WT	30	04	07A		COMMAND DECODER
Y-REFLEX	2	L	37	28	17	R	EXTENDED MODE CONTROL, REMOTE
Y-RES3	4	WT	30	04	21B		COMMAND DECODER
		L	37	28	08		EXTENDED MODE CONTROL, REMOTE
Y-REVRS	4	P	20	01	06		TIMER FEED PC-CARD PLUG
		WT	30	02	15A		MOVE STATUS PC CARD
		WT	30	07	16A		CONTACTOR PC CARD
		L	36	27	16		MODE CONTROL CONNECTOR, REMOTE
Y-STOP	7	WT	30	03	20A		COMMAND RECEIVER
		L	37	28	06		EXTENDED MODE CONTROL, REMOTE
Y-SYNC1	3	WT	30	05	19A		CAPSTAN SERVO PC CARD
		L	35	26	11		CAPSTAN SPEED CONTROL CONNECTOR
Y-SYNC2	3	WT	30	05	03B		CAPSTAN SERVO PC CARD
		L	35	26	06		CAPSTAN SPEED CONTROL CONNECTOR
Y-TACH-0		WT	30	05	04B	N	CAPSTAN SERVO PC CARD
Y-TRSP	7	F	29	01	14		CONNECTOR TO AUDIO SECTION
		WT	30	02	21A		MOVE STATUS PC CARD
		L	37	28	18		EXTENDED MODE CONTROL, REMOTE
YAC1-M3	4	M	18	01	05		CAPSTAN MOTOR ASSEMBLY
(CONT.)		WT	30	05	04A		CAPSTAN SERVO PC CARD
YAC2-M3	5	M	18	01	08		CAPSTAN MOTOR ASSEMBLY
		WT	30	05	03A		CAPSTAN SERVO PC CARD
YAN-M1		WT	30	06	19A		SPOOLING MOTOR CONTROL PC CARD
		WT	30	07	11A		CONTACTOR PC CARD
YAN-M2		WT	30	06	07A		SPOOLING MOTOR CONTROL PC CARD
		WT	30	07	05A		CONTACTOR PC CARD
YBI-CAUT		WT	30	04	15A		COMMAND DECODER
		WT	30	06	12A		SPOOLING MOTOR CONTROL PC CARD
YBI-CUT		WT	30	03	13B		COMMAND RECEIVER
		WT	30	04	18A		COMMAND DECODER
YBI-END		WT	30	02	07B		MOVE STATUS PC CARD
		WT	30	03	15B		COMMAND RECEIVER
		WT	30	07	19A		CONTACTOR PC CARD
YBI-FAD		WT	30	03	12B		COMMAND RECEIVER
		WT	30	04	12A		COMMAND DECODER
YBI-FF0		WT	30	03	05A		COMMAND RECEIVER
		WT	30	04	03B		COMMAND DECODER
YBI-FF1		WT	30	03	06A		COMMAND RECEIVER
		WT	30	04	04A		COMMAND DECODER
YBI-FF2		WT	30	03	07A		COMMAND RECEIVER
		WT	30	04	05A		COMMAND DECODER
YBI-FF3		WT	30	03	08A		COMMAND RECEIVER
		WT	30	04	04B		COMMAND DECODER
YBI-FORW		WT	30	02	12A	N	MOVE STATUS PC CARD
YBI-INIT		WT	30	02	12B		MOVE STATUS PC CARD
		WT	30	03	12A		COMMAND RECEIVER
YBI-LOAD		WT	30	02	16A	N	MOVE STATUS PC CARD
YBI-MOVD		WT	30	02	05B		MOVE STATUS PC CARD
		WT	30	03	04A		COMMAND RECEIVER
YBI-MOV1		WT	30	02	05A		MOVE STATUS PC CARD
		WT	30	04	03A		COMMAND DECODER
YBI-PLS2		WT	30	02	09B	N	MOVE STATUS PC CARD
YBI-PULS		WT	30	02	20A	N	MOVE STATUS PC CARD
YBI-RES3		WT	30	04	19A	N	COMMAND DECODER
YBI-SAFE		WT	30	07	22A	N	CONTACTOR PC CARD

./.

SIG.NAME	CCLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT
YPS-MOVE	3	WT	24	05	12A		CONNECTOR TO ZERO-LOCATOR
		F	24	07	04		FEED TO ZERO-LOCATOR-SYSTEM
		M	29	01	18		CONNECTOR TO AUDIO SECTION
		M	29	02	04		CONNECTOR TO ZERO-LOCATOR
		WT	30	02	20B	*	MOVE STATUS PC CARD
		L	36	27	09		MODE CONTROL CONNECTOR, REMOTE
YPS-REC	3	F	29	01	12		CONNECTOR TO AUDIO SECTION
		WT	30	03	10A		COMMAND RECEIVER
Y2-SIGN	5	N	24	02	01		TIMER FEED 11-POLE CIS PLUG
		WT	24	05	15A		CONNECTOR TO ZERO-LOCATOR
ZERO-OUT	6	N	24	02	06		TIMER FEED 11-POLE CIS PLUG
		WT	24	05	19A		CONNECTOR TO ZERO-LOCATOR



TITLE: MASTER RECORDER ***STUDER A80/RC*** AUDIO SECTION

INDEX: 1

DATE OF ORIGIN: 78/09/28
DATE OF PROC.: 79/08/09

OPTIONS IN EFFECT: LOCLIS, SIGLIS, ALLCOL

TOTAL GROUPS: 7
TOTAL ELEMENTS: 51
TOTAL PINS: 585
TOTAL UNUSED PINS: 109
MULTIPLE PINS: 0

SIGNALS: TOTAL: 106
USED: 100
UNUSED: 6

GROUP NODE = *
INTER GROUP NODE = #
DIRECT WIRE TO # = <
WIRING NOT COMPUTED = @

DIAGNOSTICS GENERATED: N O N E

GR #	USED PINS	UNUSED PINS	TOTAL PINS	COD. KEYS	ELE-MNTS	DESCRIPTION OF GROUP	PART # OF GR
51	383	88	471	4	39	BASIS BOARD	1.081.938.00
52	8	4	12	4	4	AUDIO CONNECTOR FIELD	1.080.297.00
53	10	0	10	0	1	MONITOR FACEPLATE	1.081.920.00
54	6	1	7	0	1	MONITOR AMPLIFIER	1.081.908.00
55	29	6	35	2	1	VU-METER PANEL	1.081.912.00
56	12	3	15	3	4	CONN. FIELD PILOT AND FOLLOW-UP SYSTEM	1.081.296.00
57	28	7	35	2	1	PILOT FOLLOW-UP SYSTEM	1.081.913.00
TOT.	476	109	585	15	51	DISTRIBUTED IN 7 GROUPS	

GR: 51 1.081.938.00
BASIS BOARD

EL: 01 CONN. TAPE DECK P01

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	0	Y-MONO	9			
M	02	0	-5.8	6			
M	03	0	S-CAPEXT	8			
M	04	0	Y-OUT1	4			
M	05	0	SPD-CTL1	9			
F	06	0	+5.8	5			
M	07	0	RECSTINH	9			
M	08	0	MOD1	3			
	09	0					
M	10	0	S-MONO	1			
M	11	0	Y-REC	6			
M	12	0	YPS-REC	3			
M	13	0	0.0	0			
M	14	0	Y-TRSP	7			
M	15	0	Y-END	3			
M	16	0	MOD2	8			
F	17	0	B-CUT	6			
F	18	0	YPS-MOVE	3			
M	19	0	Y-LOW	5			
M	20	0	Y-MUTE	4			
F	21	0	+24.0	2			
M	22	0	B-STOP	1			
F	23	0	K-PRESS	8			
F	24	0	B-MONO	7			

EL: 02 CONN. POWER SUPPLY P02

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
M	01	0	AC1	4			
M	02	0	AC2	7			
M	03	0					
M	04	0	AC4	3			
M	05	0	0-AC1	4			
M	06	0	0-AC2	7			
M	07	0					
M	08	0	0-AC4	3			

EL: 03 CONN. STABILIZER J03

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01	0	CHASSIS				
	02	0					
	03	0					
	04	0					
	05	0					
	06	0					
	07	0					
	08	0					
	09	0					

./.

GR: 51 (CONTINUATION)
BASIS BOARD

EL: 03 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	10	0	0-AC1				
	11	0	AC1				
	12	0					
	13	0	Y-LOW				
	14	0	0.0				
	15	0	-12.0				
	16	0	+12.0				
	17	0	Y-SPEED				
	18	0					
	19	0	AC4				
	20	0	0-AC4				

EL: 04 BASIS BOARD FIELD E04

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	0-AC1	4			
L	02	0	AC1	4			
L	03	0	Y-LOW	5			
L	04	0	Y-LOW	5			
L	05	0	AC4	3			
L	06	0	0-AC4	3			

EL: 07 BASIS BOARD FIELD E07

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	Y-REC	6			
L	02	0	S-CAPEXT	8			
L	03	0	SPD-CTL1	9			
L	04	0	K-PRESS	8			
L	05	0	B-STOP	1			
L	06	0	Y-OUT1	4			
L	07	0	+24.0	4			
L	08	0	+5.8	5			
L	09	0	-5.8	6			
	10	0					
	11	0					
L	12	0	0.0	0			
L	13	0	Y-TRSP	7			
L	14	0	Y-END	3			

EL: 08 CONN. FEED FOLLOW-UP SYSTEM J08

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
D	01	0	Y-REC	6			
D	02	0	S-CAPEXT	8			
D	03	0	SPD-CTL1	9			
D	04	0	K-PRESS	8			
D	05	0	B-STOP	1			

./.

GR: 51 (CONTINUATION)
BASIS BOARD

EL: 08 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
D	06	0	Y-OUT1	4			
D	07	0	+24.0	4			
D	08	0	+5.8	5			
D	09	0	-5.8	6			
D	10	0	+12.0	2			
D	11	0	-12.0	7			
D	12	0	0.0.0	0			
D	13	0	Y-TRSP	7			
D	14	0	Y-END	3			

EL: 13 BASIS BOARD FIELD E13

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	SCREEN				
L	02	0	H-PILOT2	6			
L	03	0	L-PILOT2	9			
L	04	0	AC2	7			
	05	0					
	06	0					
	07	0					
L	08	0	0-AC2	7			

EL: 14 CONN. FEED FOLLOW-UP SYSTEM J14

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
D	01	0	AC2	7			
	02	0	CHASSIS	0			
D	03	0	0.0	0			
D	04	0	OUT3-2	2			
D	05	0	OUT3-3	4			
D	06	0	B-PINLEV	5			
D	07	0	INP3-2	9			
D	08	0	INP3-1	6			

EL: 15 CONN. TO PILOT CONN. FIELD J15

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01	0	CHASSIS	0			
D	02	0	0.0	0			
D	03	0	OUT3-2	2			
D	04	0	OUT3-3	4			
D	05	0	B-PINLEV	5			
D	06	0	INP3-2	9			
D	07	0	INP3-1	6			

GR: 51 (CONTINUATION)
BASIS BOARD

EL: 16 CONN. PILOT AMP. J16

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01A	0	CHASSIS				
	01B	0	CHASSIS				
	02A	0	L-PILOT1				
	02B	0	L-PILOT1				
	03A	0	H-PILOT1				
	03B	0	H-PILOT1				
	04A	0					
	04B	0					
	05A	0					
	05B	0					
	06A	0	H-PILOT2				
	06B	0					
	07A	0	L-PILOT2				
	07B	0					
	08A	0					
	08B	0					
	09A	0	AC2				
	09B	0					
	10A	0	H-ERAS1				
	10B	0	H-ERAS1				
	11A	0					
	11B	0					
	12A	0	INP3-2				
	12B	0	INP3-2				
	13A	0	INP3-1				
	13B	0	INP3-1				
	14A	0	0.0				
	14B	0	0.0				
	15A	0	-12.0				
	15B	0	-12.0				
	16A	0	+12.0				
	16B	0	+12.0				
	17A	0	B-PINLEV				
	17B	0					
	18A	0	Y-SPEED				
	18B	0					
	19A	0	OUT3-3				
	19B	0	OUT3-3				
	20A	0	OUT3-2				
	20B	0	OUT3-2				

EL: 18 BASIS BOARD FIELD E18

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	L-PILOT1	9			
L	02	0	H-PILOT1	6			
L	03	0	SCREEN				

GR: 51 (CONTINUATION)
BASIS BOARD

EL: 19 BASIS BOARD FIELD E19

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01	OR	YPS-REC				
L	02	0	Y-MONO	9			
L	03	0	Y-MONO	9			
	04	OR	YPS-REC				
L	05	0	Y-REC	6			
L	06	0	Y-REC	6			
L	07	0	Y-REC	6			
L	08	0	Y-LOW	5			
L	09	0	+24.0	4			
L	10	0	+24.0	4			
L	11	0	+24.0	4			
L	12	0	S-REC2	3			
L	13	0	S-REC2	3			
L	14	0	S-REC1	7			
L	15	0	YPS-MOVE	3			
L	16	0	MOD1	3			
L	17	0	B-CUT	6			
L	18	0	Y-SPEED				
L	19	0	S-SAFE				

EL: 20 BASIS BOARD FIELD E20

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	H-ERAS1	6			
L	02	0	L-ERAS	TRSP			
L	03	0	H-ERAS2	2			
	04	0	SCREEN				
	05	0					
	06	0					
	07	0					
	08	0					

EL: 21 CONN. OSCILLATOR J21

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01A	0	CHASSIS				
	01B	0	CHASSIS				
	02A	0	H-ERAS1				
	02B	0					
	03A	0	L-ERAS				
	03B	0					
	04A	0	H-ERAS2				
	04B	0					
	05A	0	O-BIAS2				
	05B	0					
	06A	0	K-REC2				
	06B	0					
	07A	0	H-BIASL2				
	07B	0					

./.

GR: 51 (CONTINUATION)
BASIS BOARD

EL: 21 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	08A	0	H-BIASH2				
	08B	0					
	09A	0	O-BIAS1				
	09B	0					
	10A	0	K-REC1				
	10B	0					
	11A	0	H-BIASL1				
	11B	0					
	12A	0	H-BIASH1				
	12B	0					
	13A	0	+24.0				
	13B	0					
	14A	0	0.0				
	14B	0	0.0				
	15A	0	-12.0				
	15B	0	-12.0				
	16A	0	+12.0				
	16B	0	+12.0				
	17A	0	Y-SPEED				
	17B	0	S-SAFE				
	18A	0	S-RECD1				
	18B	0	YPS-MOVE				
	19A	0	S-RECD2				
	19B	0	MOD1				
	20A	0	Y-LOW				
	20B	0	B-CUT				

EL: 22 CONN. FEED VU PANEL J22

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
D	01	0	+24.0	4			
D	02	0	S-RECD1	8			
D	03	0	S-RECD2	3			
D	04	0	S-RCD2	7			
D	05	0	S-RCD1	9			
	06	0					
D	07	0	0.0	0			
D	08	0	-12.0	6			
D	09	0	+12.0	2			

EL: 23 CONN. REC. AMPL. CH2 J23

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01	0	CHASSIS				
	02	0	L-REC2				
	03	0	H-REC2				
	04	0	O-BIAS2				
	05	0	K-REC2				
	06	0	H-BIASL2				

./.

GR: 51 (CONTINUATION)
BASIS BOARD

EL: 23 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	07	0	H-BIASH2				
	08	0					
	09	0					
	10	0	RECD2				
	11	0	INP2-3				
	12	0	INP2-2				
	13	0	INP2-1				
	14	0	0.0				
	15	0	-12.0				
	16	0	+12.0				
	17	0	Y-SPEED				
	18	0					
	19	0	S-REC2				
	20	0	S-RCD2				

EL: 24 BASIS BOARD FIELD E24

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	L-REC1	9			
L	02	0	SCREEN				
L	03	0	H-REC1	6			
L	04	0	L-REC2	9			
L	05	0	SCREEN				
L	06	0	H-REC2	6			

EL: 25 CONN. MONITOR INP. SIGNALS J25

TYPE	PT	LV	SIG.NAME	CCLOR	F	X	Y
D	01	0	INP2-3	9			
D	02	0	INP2-0.0	4			
D	03	0	INP1-3	9			
D	04	0	INP1-0.0	4			

EL: 26 BASIS BOARD FIELD E26

TYPE	PT	LV	SIG.NAME	CCLOR	F	X	Y
L	01	0	INP1-2	9			
L	02	0	INP1-1	6			
L	03	0	INP1-0.0				
L	04	0	INP2-2	9			
L	05	0	INP2-1	6			
L	06	0	INP2-0.0				
	07	0	S-REC1				
	08	0	S-REC1				
	09	0	S-REC1				

GR: 51 (CONTINUATION)
BASIS BOARD

EL: 27 CONN. REC. AMPL. CH1 J27

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01	0	CHASSIS				
	02	0	L-REC1				
	03	0	H-REC1				
	04	0	O-BIAS1				
	05	0	K-REC1				
	06	0	H-BIASL1				
	07	0	H-BIASH1				
	08	0					
	09	0					
	10	0	RECD1				
	11	0	INP1-3				
	12	0	INP1-2				
	13	0	INP1-1				
	14	0	0.0				
	15	0	-12.0				
	16	0	+12.0				
	17	0	Y-SPEED				
	18	0					
	19	0	S-REC1				
	20	0	S-RCD1				

EL: 28 CONN. FEED VU PANEL J28

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
D	01	0	INP1-0.0	9			
D	02	0	REC1	6			
D	03	0	INP1-3	2			
	04	0	0.0				
	05	0	0.0				
D	06	0	INP2-3	2			
D	07	0	REC2	6			
D	08	0	INP2-0.0	9			

EL: 29 BASIS BOARD FIELD E29

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	S-MONO	1			
L	02	0	B-MONO	7			
	03	0	B-MONO	5			

EL: 30 CONN. MONO-STEREO SWITCH J30

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01A	0	CHASSIS				
	01B	0	CHASSIS				
	02A	0	RECD2				
	02B	0	REC2				
	03A	0	INP2-3				

./.

GR: 51 (CONTINUATION)
BASIS BOARD

EL: 30 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	03B	0					
	04A	0	RECD1				
	04B	0	REC1				
	05A	0	INP1-3				
	05B	0					
	06A	0	OUT1-4				
	06B	0	OUT1-4				
	07A	0	REP1				
	07B	0	REP1M				
	08A	0	0.0				
	08B	0	0.0				
	09A	0	0.0				
	09B	0	0.0				
	10A	0	OUT2-4				
	10B	0	OUT2-4				
	11A	0	REP2				
	11B	0	REP2M				
	12A	0					
	12B	0					
	13A	0					
	13B	0					
	14A	0	0.0				
	14B	0	0.0				
	15A	0	-12.0				
	15B	0	-12.0				
	16A	0	+12.0				
	16B	0	+12.0				
	17A	0	Y-SPEED				
	17B	0	Y-SPEED				
	18A	0					
	18B	0					
	19A	0	S-MONO				
	19B	0	S-MONO				
	20A	0	B-MONO				
	20B	0	B-MONO				

EL: 31 CONN. FEED VU PANEL J31

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
D	01	0	OUT2-0.0	9			
D	02	0	OUT2-4	2			
D	03	0	REP2M	2			
D	04	0	REP2-0.0	9			
D	05	0	REP1-0.0	9			
D	06	0	REP1M	2			
D	07	0	OUT1-4	2			
D	08	0	OUT1-0.0	9			

GR: 51 (CONTINUATION)
BASIS BOARD

EL: 32 CONN.MONITOR REPROD.SIGNALS J32

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
D	01	0	REP1	9			
D	02	0	REP2	9			
D	03	0	REP1-0.0	4			
D	04	0	REP2-0.0	4			
D	05	0	-12.0	6			
D	06	0	+12.0	2			

EL: 33 BASIS BOARD FIELD E33

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	MOD1	3			
L	02	0	MOD2	8			
	03	0					
	04	0					

EL: 34 CONN.MODULATION LEVEL MONIT. J34

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01	0	CHASSIS				
	02	0					
	03	0					
	04	0					
	05	0					
	06	0					
	07	0					
	08	0					
	09	0	OUT1-4				
	10	0	REP1				
	11	0					
	12	0	OUT2-4				
	13	0	REP2				
	14	0	0.0				
	15	0	-12.0				
	16	0	+12.0				
	17	0	MOD1				
	18	0	MOD2				
	19	0					
	20	0					

EL: 35 CONN. FEED VU PANEL J35

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
D	01	0	OUT2-2	9			
D	02	0	OUT2-1	2			
D	03	0	OUT2-0.0	4			

GR: 51 (CONTINUATION)
BASIS BOARD

EL: 36 BASIS BOARD FIELD E36

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	O-REP2	8			
L	02	0	H-REP2	6			
L	03	0	SCREEN				

EL: 37 CONN. REP. AMPL. CH2 J37

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01	0	CHASSIS				
	02	0	O-REP2				
	03	0	H-REP2				
	04	0	SCREEN				
	05	0					
	06	0	CROSCOM1				
	07	0	CROSCOM2				
	08	0					
	09	0					
	10	0	OUT2-4				
	11	0	REP2				
	12	0	OUT2-2				
	13	0	OUT2-1				
	14	0	OUT2-0.0				
	15	0	-12.0				
	16	0	+12.0				
	17	0	Y-SPEED				
	18	0					
	19	0					
	20	0	Y-MUTE				

EL: 38 BASIS BOARD FIELD E38

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	OUT2-2	9			
L	02	0	OUT2-1	6			
L	03	0	OUT2-0.0				
L	04	0	Y-MUTE	4			

EL: 39 CONN. FEED VU PANEL J39

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
D	01	0	OUT1-2	9			
D	02	0	OUT1-1	2			
D	03	0	OUT1-0.0	4			

GR: 51 (CONTINUATION)
BASIS BOARD

EL: 40 BASIS BOARD FIELD E40

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	O-REP1	8			
L	02	0	H-REP1	6			
L	03	0	SCREEN				
L	04	0	OUT1-2	9			
L	05	0	OUT1-1	6			
L	06	0	OUT1-0.0				

EL: 41 CONN. REP. AMPL. CH1 J41

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01	0	CHASSIS				
	02	0	O-REP1				
	03	0	H-REP1				
	04	0	SCREEN				
	05	0					
	06	0	CROSCOM2				
	07	0	CROSCOM1				
	08	0					
	09	0					
	10	0	OUT1-4				
	11	0	REP1				
	12	0	OUT1-2				
	13	0	OUT1-1				
	14	0	OUT1-0.0				
	15	0	-12.0				
	16	0	+12.0				
	17	0	Y-SPEED				
	18	0					
	19	0					
	20	0	Y-MUTE				

EL: 44 CONN. INPUT CH1 P44

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	INP1-1	6			
	02	0	KEY				
N	03	0					
N	04	0	INP1-2	9			

EL: 45 CONN. INPUT CH2 P45

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	INP2-1	6			
	02	0	KEY				
N	03	0					
N	04	0	INP2-2	9			

GR: 51 (CONTINUATION)
BASIS BOARD

EL: 46 CONN. OUTPUT CH1 P46

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	OUT1-1	6			
	02	0	KEY				
N	03	0					
N	04	0	OUT1-2	9			

EL: 47 CONN. OUTPUT CH2 P47

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	OUT2-1	6			
	02	0	KEY				
N	03	0					
N	04	0	OUT2-2	9			

EL: 48 CONN. HEAD BLOCK P48

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01	0	O-REP1	2			
	02	0	H-REP1	6			
	03	0	SCREEN				
	04	0	Y-REC	2			
	05	0	S-REC1	7			
	06	0	H-REC1	6			
	07	0	L-REC1	9			
	08	0	H-PILOT1	9			
	09	0	L-PILOT1	6			
	10	0	B-MONO	5			
	11	0	L-ERAS	9			
	12	0	H-ERAS1	6			
	13	0	O-REP2	2			
	14	0	H-REP2	6			
	15	0	SCREEN				
	16	0	+24.0	4			
	17	0	S-REC2	3			
	18	0	H-REC2	6			
	19	0	L-REC2	9			
	20	0	L-PILOT2	9			
	21	0	H-PILOT2	6			
	22	0	Y-MONO	1			
	23	0	0.0	0			
	24	0	H-ERAS2	2			

GR: 52 1.C80.297.00
AUDIO CONNECTOR FIELD

EL: 44 CONN. LINE INPUT CH1 J44

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	INP1-1	6			
	02	0	KEY				
N	03	0					
N	04	0	INP1-2	9			

EL: 45 CONN. LINE INPUT CH2 J45

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	INP2-1	6			
	02	0	KEY				
N	03	0					
N	04	0	INP2-2	9			

EL: 46 CONN. LINE OUTPUT CH1 J46

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	OUT1-1	6			
	02	0	KEY				
N	03	0					
N	04	0	OUT1-2	9			

EL: 47 CONN. LINE OUTPUT CH2 J47

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	OUT2-1	6			
	02	0	KEY				
N	03	0					
N	04	0	OUT2-2	9			

GR: 53 1.081.920.00
MONITOR FACEPLATE

EL: 27 MONITOR FACEPLATE FIELD E27

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	INP1-3	9			
L	02	0	INP1-0.0	4			
L	03	0	INP2-3	9			
L	04	0	INP2-0.0	4			
L	05	0	REP1	9			
L	06	0	REP1-0.0	4			
L	07	0	REP2	9			
L	08	0	REP2-0.0	4			
L	09	0	-12.0	6			
L	10	0	+12.0	2			

GR: 54 1.081.908.00
MONITOR AMPLIFIER

EL: 29 CONN. MONITOR AMPL. J29

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	H-INPM	9			
	02	0					
N	03	0	0-INPM	4			
N	04	0	0-OUTM	9			
N	05	0	H-OUTM	5			
N	06	0	-12.0	6			
N	07	0	+12.0	2			

GR: 55 1.081.912.00
VU-METER PANEL

EL: 39 CONN. VU-METER PANEL J39

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
	01	0	KEY				
B	02	0	CHASSIS	0			
B	03	0	REP2M	2			
B	04	0	INP2-0.0	9			
B	05	0	REC2	5			
	06	0					
B	07	0	REC1	5			
B	08	0	INP1-0.0	9			
B	09	0	REP1M	2			
	10	0					
	11	0					
	12	0					
B	13	0	OUT1-1	2			
B	14	0	OUT2-0.0	9			
B	15	0	OUT2-2	9			
B	16	0	+24.0	4			
B	17	0	+12.0	2			
B	18	0	S-RECD1	8			
B	19	0	S-RCD1	9			
B	20	0	OUT2-4	2			
B	21	0	OUT2-0.0	9			
B	22	0	REP2-0.0	9			
B	23	0	INP2-3	2			
	24	0					
	25	0					
B	26	0	INP1-3	2			
B	27	0	REP1-0.0	9			
B	28	0	OUT1-0.0	9			
B	29	0	OUT1-4	2			
B	30	0	0.0	0			
B	31	0	OUT1-2	9			
B	32	0	OUT1-0.0	4			
	33	0	KEY				
B	34	0	OUT2-1	2			
B	35	0	-12.0	6			
B	36	0	S-RECD2	3			
B	37	0	S-RCD2	7			

GR: 56 1.081.296.00
CONN. FIELD PILOT AND FOLLOW-UP SYSTEM

EL: 16 CONN. PILOT SYSTEM J16

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
L	01	0	INP3-1	6			
L	02	0	INP3-2	9			
L	03	0	0.0	0			
L	04	0	OUT3-3	4			
L	05	0	OUT3-2	2			
L	06	0	B-PINLEV	5			

EL: 17 CONN.FOLLOW-UP SYST.EXT.REF. J17

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	EX.REF-1	6			
	02	0	KEY				
N	03	0					
N	04	0	EX.REF-2	9			

EL: 18 CONN.FOLLOW-UP SYST. OUTPUT J18

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	OUT3-2	6			
	02	0	KEY				
N	03	0					
N	04	0	OUT3-3	9			

EL: 19 CONN.FOLLOW-UP SYST. INPUT J19

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	INP3*1	6			
	02	0	KEY				
N	03	0					
N	04	0	INP3*2	9			

GR: 57 1.081.913.00
PILOT FOLLOW-UP SYSTEM

EL: 20 CONN. PILOT FOLLOW-UP SYST. J20

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
B	01	0	CHASSIS	0			
B	02	0	AC2	7			
B	03	0	0.0	0			
	04	0	KEY				
B	05	0	OUT3-2	2			
B	06	0	OUT3-3	4			
B	07	0	INP3-2	9			
B	08	0	INP3-1	6			
B	09	0	B-PINLEV	5			
	10	0	EX.REF-1	6			
B	11	0	EX.REF-2	9			
B	12	0	OUT3-2	6			
B	13	0	OUT3-3	9			
B	14	0	INP3*1	6			
B	15	0	INP3*2	9			
	16	0					
	17	0					
	18	0					
	19	0					
	20	0					
	21	0					
	22	0					
B	23	0	Y-REC	6			
B	24	0	S-CAPEXT	8			
B	25	0	SPD-CTL1	9			
B	26	0	K-PRESS	8			
B	27	0	B-STOP	1			
B	28	0	Y-OUT1	4			
B	29	0	Y-TRSP	7			
B	30	0	Y-END	3			
B	31	0	0.0	0			
B	32	0	+24.0	4			
B	33	0	+5.8	5			
B	34	0	-5.8	6			
	35	0	KEY				
B	36	0	+12.0	2			
B	37	0	-12.0	7			

SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT	
+12.0			51	03	16		CONN. STABILIZER	J03
	2	D	51	08	10		CONN. FEED FOLLOW-UP SYSTEM	J08
			51	16	16A		CONN. PILOT AMP.	J16
			51	16	16B		CONN. PILOT AMP.	J16
			51	21	16A		CONN. OSCILLATOR	J21
			51	21	16B		CONN. OSCILLATOR	J21
	2	D	51	22	09		CONN. FEED VU PANEL	J22
			51	23	16		CONN. REC. AMPL. CH2	J23
			51	27	16		CONN. REC. AMPL. CH1	J27
			51	30	16A		CONN. MONO-STEREO SWITCH	J30
			51	30	16B		CONN. MONO-STEREO SWITCH	J30
	2	D	51	32	06		CONN.MONITOR REPROD.SIGNALS	J32
			51	34	16		CONN.MODULATION LEVEL MONIT.	J34
			51	37	16		CONN. REP. AMPL. CH2	J37
			51	41	16		CONN. REP. AMPL. CH1	J41
	2	L	53	27	10		MONITOR FACEPLATE FIELD	E27
	2	N	54	29	07		CONN. MONITOR AMPL.	J29
	2	B	55	39	17		CONN. VU-METER PANEL	J39
	2	B	57	20	36		CONN. PILOT FOLLOW-UP SYST.	J20
+24.0	2	F	51	01	21		CONN. TAPE DECK	P01
	4	L	51	07	07		BASIS BOARD FIELD	E07
	4	D	51	08	07		CONN. FEED FOLLOW-UP SYSTEM	J08
	4	L	51	19	09		BASIS BOARD FIELD	E19
	4	L	51	19	10		BASIS BOARD FIELD	E19
	4	L	51	19	11		BASIS BOARD FIELD	E19
			51	21	13A		CONN. OSCILLATOR	J21
	4	D	51	22	01		CONN. FEED VU PANEL	J22
	4		51	48	16		CONN. HEAD BLOCK	P48
	4	B	55	39	16		CONN. VU-METER PANEL	J39
	4	B	57	20	32		CONN. PILOT FOLLOW-UP SYST.	J20
+5.8	5	F	51	01	06		CONN. TAPE DECK	P01
	5	L	51	07	08		BASIS BOARD FIELD	E07
	5	D	51	08	08		CONN. FEED FOLLOW-UP SYSTEM	J08
	5	B	57	20	38		CONN. PILOT FOLLOW-UP SYST.	J20
-12.0			51	03	15		CONN. STABILIZER	J03
	7	D	51	08	11		CONN. FEED FOLLOW-UP SYSTEM	J08
			51	16	15A		CONN. PILOT AMP.	J16
			51	16	15B		CONN. PILOT AMP.	J16
			51	21	15A		CONN. OSCILLATOR	J21
			51	21	15B		CONN. OSCILLATOR	J21
	6	D	51	22	08		CONN. FEED VU PANEL	J22
			51	23	15		CONN. REC. AMPL. CH2	J23
			51	27	15		CONN. REC. AMPL. CH1	J27
			51	30	15A		CONN. MONO-STEREO SWITCH	J30
			51	30	15B		CONN. MONO-STEREO SWITCH	J30
	6	D	51	32	05		CONN.MONITOR REPROD.SIGNALS	J32
			51	34	15		CONN.MODULATION LEVEL MONIT.	J34
			51	37	15		CONN. REP. AMPL. CH2	J37
			51	41	15		CONN. REP. AMPL. CH1	J41
	6	L	53	27	09		MONITOR FACEPLATE FIELD	E27
	6	N	54	29	06		CONN. MONITOR AMPL.	J29
	6	B	55	39	35		CONN. VU-METER PANEL	J39
	7	B	57	20	37		CONN. PILOT FOLLOW-UP SYST.	J20
-5.8	6	M	51	01	02		CONN. TAPE DECK	P01
	6	L	51	07	09		BASIS BOARD FIELD	E07
	6	D	51	08	09		CONN. FEED FOLLOW-UP SYSTEM	J08
	6	B	57	20	34		CONN. PILOT FOLLOW-UP SYST.	J20
AC1	4	M	51	02	01		CONN. POWER SUPPLY	P02
			51	03	11		CONN. STABILIZER	J03
	4	L	51	04	02		BASIS BOARD FIELD	E04
AC2	7	M	51	02	02		CONN. POWER SUPPLY	P02
	7	L	51	13	04		BASIS BOARD FIELD	E13
	7	D	51	14	01		CONN. FEED FOLLOW-UP SYSTEM	J14
			51	16	09A		CONN. PILOT AMP.	J16
	7	B	57	20	02		CONN. PILOT FOLLOW-UP SYST.	J20
AC4	3	M	51	02	04		CONN. POWER SUPPLY	P02
			51	03	19		CONN. STABILIZER	J03
	3	L	51	04	05		BASIS BOARD FIELD	E04
B-CUT	6	F	51	01	17		CONN. TAPE DECK	P01
	6	L	51	19	17		BASIS BOARD FIELD	E19
			51	21	20B		CONN. OSCILLATOR	J21
B-MONO	7	F	51	01	24		CONN. TAPE DECK	P01
	7	L	51	29	02		BASIS BOARD FIELD	E29
	5		51	29	03		BASIS BOARD FIELD	E29
			51	30	20A		CONN. MONO-STEREO SWITCH	J30
			51	30	20B		CONN. MONO-STEREO SWITCH	J30
	5		51	48	10		CONN. HEAD BLOCK	P48
B-PINLEV	5	D	51	14	06		CONN. FEED FOLLOW-UP SYSTEM	J14
	5	D	51	15	05		CONN. TO PILOT CONN. FIELD	J15
			51	16	17A		CONN. PILOT AMP.	J16
	5	L	56	16	06		CONN. PILOT SYSTEM	J16
	5	B	57	20	09		CONN. PILOT FOLLOW-UP SYST.	J20
B-STOP	1	M	51	01	22		CONN. TAPE DECK	P01
	1	L	51	07	05		BASIS BOARD FIELD	E07
	1	D	51	08	05		CONN. FEED FOLLOW-UP SYSTEM	J08
	1	B	57	20	27		CONN. PILOT FOLLOW-UP SYST.	J20
CHASSIS			51	03	01		CONN. STABILIZER	J03
	0		51	14	02		CONN. FEED FOLLOW-UP SYSTEM	J14
	0		51	15	01		CONN. TO PILOT CONN. FIELD	J15
			51	16	01A		CONN. PILOT AMP.	J16
			51	16	01B		CONN. PILOT AMP.	J16
			51	21	01A		CONN. OSCILLATOR	J21
			51	21	01B		CONN. OSCILLATOR	J21
			51	23	01		CONN. REC. AMPL. CH2	J23
			51	27	01		CONN. REC. AMPL. CH1	J27
			51	30	01A		CONN. MONO-STEREO SWITCH	J30
			51	30	01B		CONN. MONO-STEREO SWITCH	J30
			51	34	01		CONN.MODULATION LEVEL MONIT.	J34
			51	37	01		CONN. REP. AMPL. CH2	J37
			51	41	01		CONN. REP. AMPL. CH1	J41
	0	B	55	39	02		CONN. VU-METER PANEL	J39

./.

SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT	
(CONT.)	0	B	57	20	01		CONN. PILOT FOLLOW-UP SYST.	J20
CROSCOM1			51	37	06		CONN. REP. AMPL. CH2	J37
			51	41	07		CONN. REP. AMPL. CH1	J41
CROSCOM2			51	37	07		CONN. REP. AMPL. CH2	J37
			51	41	06		CONN. REP. AMPL. CH1	J41
EX.REF-1	6	N	56	17	01		CONN.FOLLOW-UP SYST.EXT.REF.	J17
	6		57	20	10		CONN. PILOT FOLLOW-UP SYST.	J20
EX.REF-2	9	N	56	17	04		CONN.FOLLOW-UP SYST.EXT.REF.	J17
	9	B	57	20	11		CONN. PILOT FOLLOW-UP SYST.	J20
H-BIASH1			51	21	12A		CONN. OSCILLATOR	J21
			51	27	07		CONN. REC. AMPL. CH1	J27
H-BIASH2			51	21	08A		CONN. OSCILLATOR	J21
			51	23	07		CONN. REC. AMPL. CH2	J23
H-BIASL1			51	21	11A		CONN. OSCILLATOR	J21
			51	27	06		CONN. REC. AMPL. CH1	J27
H-BIASL2			51	21	07A		CONN. OSCILLATOR	J21
			51	23	06		CONN. REC. AMPL. CH2	J23
H-ERAS1			51	16	10A		CONN. PILOT AMP.	J16
			51	16	10B		CONN. PILOT AMP.	J16
	6	L	51	20	01		BASIS BOARD FIELD	E20
			51	21	02A		CONN. OSCILLATOR	J21
	6		51	48	12		CONN. HEAD BLOCK	P48
H-ERAS2	2	L	51	20	03		BASIS BOARD FIELD	E20
			51	21	04A		CONN. OSCILLATOR	J21
	2		51	48	24		CONN. HEAD BLOCK	P48
H-INPM	9	N	54	29	01		CONN. MONITOR AMPL.	J29
H-OUTM	5	N	54	29	05		CONN. MONITOR AMPL.	J29
H-PILOT1			51	16	03A		CONN. PILOT AMP.	J16
			51	16	03B		CONN. PILOT AMP.	J16
	6	L	51	18	02		BASIS BOARD FIELD	E18
	9		51	48	08		CONN. HEAD BLOCK	P48
H-PILOT2	6	L	51	13	02		BASIS BOARD FIELD	E13
			51	16	06A		CONN. PILOT AMP.	J16
	6		51	48	21		CONN. HEAD BLOCK	P48
H-REC1	6	L	51	24	03		BASIS BOARD FIELD	E24
			51	27	03		CONN. REC. AMPL. CH1	J27
	6		51	48	06		CONN. HEAD BLOCK	P48
H-REC2			51	23	03		CONN. REC. AMPL. CH2	J23
	6	L	51	24	06		BASIS BOARD FIELD	E24
	6		51	48	18		CONN. HEAD BLOCK	P48
H-REP1	6	L	51	40	02		BASIS BOARD FIELD	E40
			51	41	03		CONN. REP. AMPL. CH1	J41
	6		51	48	02		CONN. HEAD BLOCK	P48
H-REP2	6	L	51	36	02		BASIS BOARD FIELD	E36
			51	37	03		CONN. REP. AMPL. CH2	J37
	6		51	48	14		CONN. HEAD BLOCK	P48
INP1-0.0	4	D	51	25	04		CONN. MONITOR INP. SIGNALS	J25
		L	51	26	03		BASIS BOARD FIELD	E26
	9	D	51	28	01		CONN. FEED VU PANEL	J28
	4	L	53	27	02		MONITOR FACEPLATE FIELD	E27
	9	B	55	39	08		CONN. VU-METER PANEL	J39
INP1-1	6	L	51	26	02		BASIS BOARD FIELD	E26
			51	27	13		CONN. REC. AMPL. CH1	J27
	6	N	51	44	01		CONN. INPUT CH1	P44
	6	N	52	44	01		CONN. LINE INPUT CH1	J44
INP1-2	9	L	51	26	01		BASIS BOARD FIELD	E26
			51	27	12		CONN. REC. AMPL. CH1	J27
	9	N	51	44	04		CONN. INPUT CH1	P44
	9	N	52	44	04		CONN. LINE INPUT CH1	J44
INP1-3	9	D	51	25	03		CONN. MONITOR INP. SIGNALS	J25
			51	27	11		CONN. REC. AMPL. CH1	J27
	2	D	51	28	03		CONN. FEED VU PANEL	J28
			51	30	05A		CONN. MONO-STEREO SWITCH	J30
	9	L	53	27	01		MONITOR FACEPLATE FIELD	E27
	2	B	55	39	26		CONN. VU-METER PANEL	J39
INP2-0.0	4	D	51	25	02		CONN. MONITOR INP. SIGNALS	J25
		L	51	26	06		BASIS BOARD FIELD	E26
	9	D	51	28	08		CONN. FEED VU PANEL	J28
	4	L	53	27	04		MONITOR FACEPLATE FIELD	E27
	9	B	55	39	04		CONN. VU-METER PANEL	J39
INP2-1			51	23	13		CONN. REC. AMPL. CH2	J23
	6	L	51	26	05		BASIS BOARD FIELD	E26
	6	N	51	45	01		CONN. INPUT CH2	P45
	6	N	52	45	01		CONN. LINE INPUT CH2	J45
INP2-2			51	23	12		CONN. REC. AMPL. CH2	J23
	9	L	51	26	04		BASIS BOARD FIELD	E26
	9	N	51	45	04		CONN. INPUT CH2	P45
	9	N	52	45	04		CONN. LINE INPUT CH2	J45
INP2-3			51	23	11		CONN. REC. AMPL. CH2	J23
	9	D	51	25	01		CONN. MONITOR INP. SIGNALS	J25
	2	D	51	28	06		CONN. FEED VU PANEL	J28
			51	30	03A		CONN. MONO-STEREO SWITCH	J30
	9	L	53	27	03		MONITOR FACEPLATE FIELD	E27
	2	B	55	39	23		CONN. VU-METER PANEL	J39
INP3*1	6	N	56	19	01		CONN.FOLLOW-UP SYST. INPUT	J19
	6	B	57	20	14		CONN. PILOT FOLLOW-UP SYST.	J20

SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT	
INP3*2	9	N	56	19	04		CONN.FOLLOW-UP SYST. INPUT	J19
	9	B	57	20	15		CONN. PILOT FOLLOW-UP SYST.	J20
INP3-1	6	D	51	14	08		CONN. FEED FOLLOW-UP SYSTEM	J14
	6	D	51	15	07		CONN. TO PILOT CONN. FIELD	J15
			51	16	19A		CONN. PILOT AMP.	J16
			51	16	19B		CONN. PILOT AMP.	J16
	6	L	56	16	01		CONN. PILOT SYSTEM	J16
	6	B	57	20	08		CONN. PILOT FOLLOW-UP SYST.	J20
INP3-2	9	D	51	14	07		CONN. FEED FOLLOW-UP SYSTEM	J14
	9	D	51	15	06		CONN. TO PILOT CONN. FIELD	J15
			51	16	12A		CONN. PILOT AMP.	J16
			51	16	12B		CONN. PILOT AMP.	J16
	9	L	56	16	02		CONN. PILOT SYSTEM	J16
	9	B	57	20	07		CONN. PILOT FOLLOW-UP SYST.	J20
K-PRESS	8	F	51	01	23		CONN. TAPE DECK	P01
	8	L	51	07	04		BASIS BOARD FIELD	E07
	8	D	51	08	04		CONN. FEED FOLLOW-UP SYSTEM	J08
	8	B	57	20	26		CONN. PILOT FOLLOW-UP SYST.	J20
K-REC1			51	21	10A		CONN. OSCILLATOR	J21
			51	27	05		CONN. REC. AMPL. CH1	J27
K-REC2			51	21	06A		CONN. OSCILLATOR	J21
			51	23	05		CONN. REC. AMPL. CH2	J23
L-ERAS	TRSP	L	51	20	02		BASIS BOARD FIELD	E20
			51	21	03A		CONN. OSCILLATOR	J21
	9		51	48	11		CONN. HEAD BLOCK	P48
L-PILOT1			51	16	02A		CONN. PILOT AMP.	J16
			51	16	02B		CONN. PILOT AMP.	J16
	9	L	51	18	01		BASIS BOARD FIELD	E18
	6		51	48	09		CONN. HEAD BLOCK	P48
L-PILOT2	9	L	51	13	03		BASIS BOARD FIELD	E13
			51	16	07A		CONN. PILOT AMP.	J16
	9		51	48	20		CONN. HEAD BLOCK	P48
L-REC1	9	L	51	24	01		BASIS BOARD FIELD	E24
			51	27	02		CONN. REC. AMPL. CH1	J27
	9		51	48	07		CONN. HEAD BLOCK	P48
L-REC2			51	23	02		CONN. REC. AMPL. CH2	J23
	9	L	51	24	04		BASIS BOARD FIELD	E24
	9		51	48	19		CONN. HEAD BLOCK	P48
MOD1	3	M	51	01	08		CONN. TAPE DECK	P01
	3	L	51	19	16		BASIS BOARD FIELD	E19
			51	21	19B		CONN. OSCILLATOR	J21
	3	L	51	33	01		BASIS BOARD FIELD	E33
			51	34	17		CONN.MODULATION LEVEL MONIT.	J34
MOD2	8	M	51	01	16		CONN. TAPE DECK	P01
(CONT.)	8	L	51	33	02		BASIS BOARD FIELD	E33
			51	34	18		CONN.MODULATION LEVEL MONIT.	J34
OUT1-0.0	9	D	51	31	08		CONN. FEED VU PANEL	J31
	4	D	51	39	03		CONN. FEED VU PANEL	J39
		L	51	40	06		BASIS BOARD FIELD	E40
			51	41	14		CONN. REP. AMPL. CH1	J41
	9	B	55	39	28		CONN. VU-METER PANEL	J39
	4	B	55	39	32		CONN. VU-METER PANEL	J39
OUT1-1	2	D	51	39	02		CONN. FEED VU PANEL	J39
	6	L	51	40	05		BASIS BOARD FIELD	E40
			51	41	13		CONN. REP. AMPL. CH1	J41
	6	N	51	46	01		CONN. OUTPUT CH1	P46
	6	N	52	46	01		CONN. LINE OUTPUT CH1	J46
	2	B	55	39	13		CONN. VU-METER PANEL	J39
OUT1-2	9	D	51	39	01		CONN. FEED VU PANEL	J39
	9	L	51	40	04		BASIS BOARD FIELD	E40
			51	41	12		CONN. REP. AMPL. CH1	J41
	9	N	51	46	04		CONN. OUTPUT CH1	P46
	9	N	52	46	04		CONN. LINE OUTPUT CH1	J46
	9	B	55	39	31		CONN. VU-METER PANEL	J39
OUT1-4			51	30	06A		CONN. MONO-STEREO SWITCH	J30
			51	30	06B		CONN. MONO-STEREO SWITCH	J30
	2	D	51	31	07		CONN. FEED VU PANEL	J31
			51	34	09		CONN.MODULATION LEVEL MONIT.	J34
			51	41	10		CONN. REP. AMPL. CH1	J41
	2	B	55	39	29		CONN. VU-METER PANEL	J39
OUT2-0.0	9	D	51	31	01		CONN. FEED VU PANEL	J31
	4	D	51	35	03		CONN. FEED VU PANEL	J35
			51	37	14		CONN. REP. AMPL. CH2	J37
		L	51	38	03		BASIS BOARD FIELD	E38
	9	B	55	39	14		CONN. VU-METER PANEL	J39
	9	B	55	39	21		CONN. VU-METER PANEL	J39
OUT2-1	2	D	51	35	02		CONN. FEED VU PANEL	J35
			51	37	13		CONN. REP. AMPL. CH2	J37
	6	L	51	38	02		BASIS BOARD FIELD	E38
	6	N	51	47	01		CONN. OUTPUT CH2	P47
	6	N	52	47	01		CONN. LINE OUTPUT CH2	J47
	2	B	55	39	34		CONN. VU-METER PANEL	J39
OUT2-2	9	D	51	35	01		CONN. FEED VU PANEL	J35
			51	37	12		CONN. REP. AMPL. CH2	J37
	9	L	51	38	01		BASIS BOARD FIELD	E38
	9	N	51	47	04		CONN. OUTPUT CH2	P47
	9	N	52	47	04		CONN. LINE OUTPUT CH2	J47
	9	B	55	39	15		CONN. VU-METER PANEL	J39
OUT2-4			51	30	10A		CONN. MONO-STEREO SWITCH	J30
			51	30	10B		CONN. MONO-STEREO SWITCH	J30
	2	D	51	31	02		CONN. FEED VU PANEL	J31
			51	34	12		CONN.MODULATION LEVEL MONIT.	J34

./.

SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT	
(CONT.)			51	37	10		CONN. REP. AMPL. CH2	J37
	2	B	55	39	20		CONN. VU-METER PANEL	J39
OUT3-2	2	D	51	14	04		CONN. FEED FOLLOW-UP SYSTEM	J14
	2	D	51	15	03		CONN. TO PILOT CONN. FIELD	J15
			51	16	20A		CONN. PILOT AMP.	J16
			51	16	20B		CONN. PILOT AMP.	J16
	2	L	56	16	05		CONN. PILOT SYSTEM	J16
	6	N	56	18	01		CONN.FOLLOW-UP SYST. OUTPUT	J18
	2	B	57	20	05		CONN. PILOT FOLLOW-UP SYST.	J20
	6	B	57	20	12		CONN. PILOT FOLLOW-UP SYST.	J20
OUT3-3	4	D	51	14	05		CONN. FEED FOLLOW-UP SYSTEM	J14
	4	D	51	15	04		CONN. TO PILOT CONN. FIELD	J15
			51	16	19A		CONN. PILOT AMP.	J16
			51	16	19B		CONN. PILOT AMP.	J16
	4	L	56	16	04		CONN. PILOT SYSTEM	J16
	9	N	56	18	04		CONN.FOLLOW-UP SYST. OUTPUT	J18
	4	B	57	20	06		CONN. PILOT FOLLOW-UP SYST.	J20
	9	B	57	20	13		CONN. PILOT FOLLOW-UP SYST.	J20
RECD1			51	27	10		CONN. REC. AMPL. CH1	J27
			51	30	04A		CONN. MONO-STEREO SWITCH	J30
RECD2			51	23	10		CONN. REC. AMPL. CH2	J23
			51	30	02A		CONN. MONO-STEREO SWITCH	J30
RECSTINH	9	M	51	01	07		CONN. TAPE DECK	P01
REC1	6	D	51	28	02		CONN. FEED VU PANEL	J28
			51	30	04B		CONN. MONO-STEREO SWITCH	J30
	5	B	55	39	07		CONN. VU-METER PANEL	J39
REC2	6	D	51	28	07		CONN. FEED VU PANEL	J28
			51	30	02B		CONN. MONO-STEREO SWITCH	J30
	5	B	55	39	05		CONN. VU-METER PANEL	J39
REP1			51	30	07A		CONN. MONO-STEREO SWITCH	J30
	9	D	51	32	01		CONN.MONITOR REPROD.SIGNALS	J32
			51	34	10		CONN.MODULATION LEVEL MONIT.	J34
			51	41	11		CONN. REP. AMPL. CH1	J41
	9	L	53	27	05		MONITOR FACEPLATE FIELD	E27
REP1-0.0	9	D	51	31	05		CONN. FEED VU PANEL	J31
	4	D	51	32	03		CONN.MONITOR REPROD.SIGNALS	J32
	4	L	53	27	06		MONITOR FACEPLATE FIELD	E27
	9	B	55	39	27		CONN. VU-METER PANEL	J39
REP1M			51	30	07B		CONN. MONO-STEREO SWITCH	J30
	2	D	51	31	06		CONN. FEED VU PANEL	J31
	2	B	55	39	08		CONN. VU-METER PANEL	J39
REP2			51	30	11A		CONN. MONO-STEREO SWITCH	J30
	9	D	51	32	02		CONN.MONITOR REPROD.SIGNALS	J32
			51	34	13		CONN.MODULATION LEVEL MONIT.	J34
			51	37	11		CONN. REP. AMPL. CH2	J37
(CONT.)	9	L	53	27	07		MONITOR FACEPLATE FIELD	E27
REP2-0.0	9	D	51	31	04		CONN. FEED VU PANEL	J31
	4	D	51	32	04		CONN.MONITOR REPROD.SIGNALS	J32
	4	L	53	27	08		MONITOR FACEPLATE FIELD	E27
	9	B	55	39	22		CONN. VU-METER PANEL	J39
REP2M			51	30	11B		CONN. MONO-STEREO SWITCH	J30
	2	D	51	31	03		CONN. FEED VU PANEL	J31
	2	B	55	39	03		CONN. VU-METER PANEL	J39
S-CAPEXT	8	M	51	01	03		CONN. TAPE DECK	P01
	8	L	51	07	02		BASIS BOARD FIELD	E07
	8	D	51	08	02		CONN. FEED FOLLOW-UP SYSTEM	J08
	8	B	57	20	24		CONN. PILOT FOLLOW-UP SYST.	J20
S-MONO	1	M	51	01	10		CONN. TAPE DECK	P01
	1	L	51	29	01		BASIS BOARD FIELD	E29
			51	30	19A		CONN. MONO-STEREO SWITCH	J30
			51	30	19B		CONN. MONO-STEREO SWITCH	J30
S-RCD1	9	D	51	22	05		CONN. FEED VU PANEL	J22
			51	27	20		CONN. REC. AMPL. CH1	J27
	9	B	55	39	19		CONN. VU-METER PANEL	J39
S-RCD2	7	D	51	22	04		CONN. FEED VU PANEL	J22
			51	23	20		CONN. REC. AMPL. CH2	J23
	7	B	55	39	37		CONN. VU-METER PANEL	J39
S-RECD1			51	21	18A		CONN. OSCILLATOR	J21
	8	D	51	22	02		CONN. FEED VU PANEL	J22
	8	B	55	39	18		CONN. VU-METER PANEL	J39
S-RECD2			51	21	19A		CONN. OSCILLATOR	J21
	3	D	51	22	03		CONN. FEED VU PANEL	J22
	3	B	55	39	36		CONN. VU-METER PANEL	J39
S-REC1	7	L	51	19	14		BASIS BOARD FIELD	E19
			51	26	07		BASIS BOARD FIELD	E26
			51	26	08		BASIS BOARD FIELD	E26
			51	26	09		BASIS BOARD FIELD	E26
			51	27	19		CONN. REC. AMPL. CH1	J27
	7		51	48	05		CONN. HEAD BLOCK	P48
S-REC2	3	L	51	19	12		BASIS BOARD FIELD	E19
	3	L	51	19	13		BASIS BOARD FIELD	E19
			51	23	19		CONN. REC. AMPL. CH2	J23
	3		51	48	17		CONN. HEAD BLOCK	P48
S-SAFE		L	51	19	19		BASIS BOARD FIELD	E19
			51	21	17B		CONN. OSCILLATOR	J21
SCREEN		L	51	13	01		BASIS BOARD FIELD	E13
		L	51	18	03		BASIS BOARD FIELD	E18
			51	20	04		BASIS BOARD FIELD	E20
		L	51	24	02		BASIS BOARD FIELD	E24

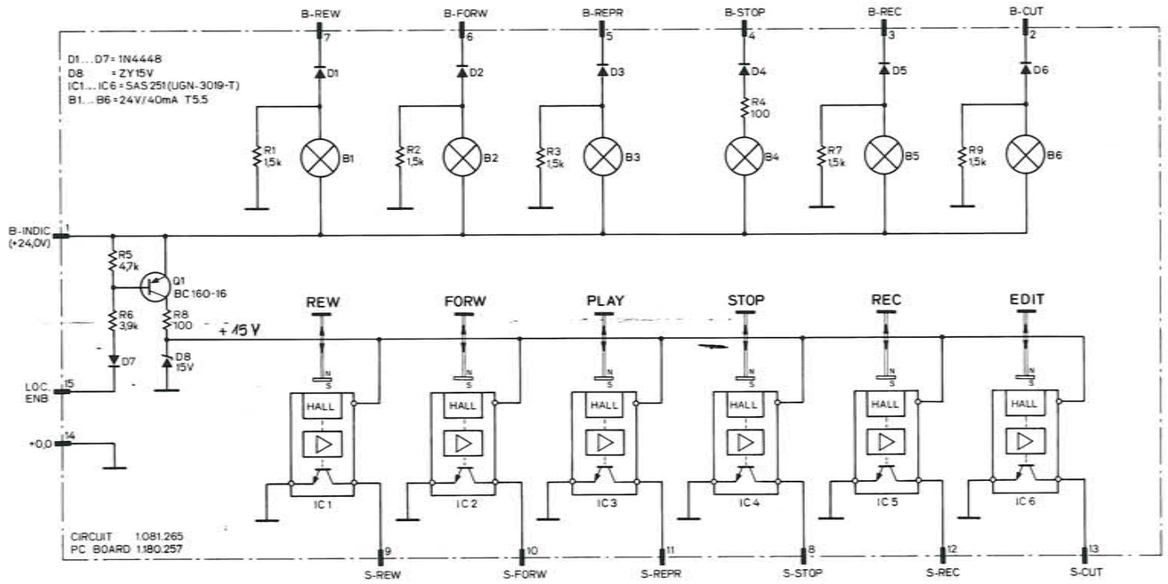
./.

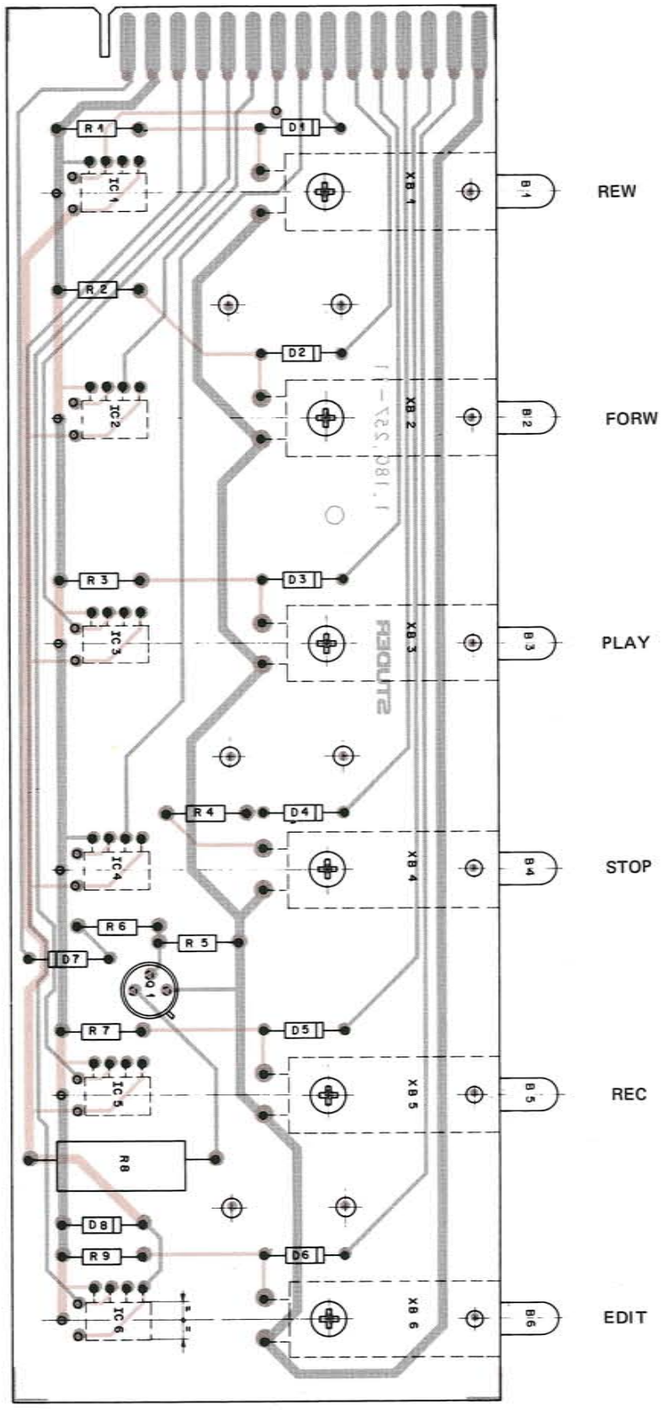
SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT		
(CONT.)		L	51	24	05		BASIS BOARD	FIELD	E24
		L	51	36	03		BASIS BOARD	FIELD	E36
			51	37	04		CONN. REP. AMPL. CH2		J37
		L	51	40	03		BASIS BOARD	FIELD	E40
			51	41	04		CONN. REP. AMPL. CH1		J41
			51	48	03		CONN. HEAD BLOCK		P48
			51	48	15		CONN. HEAD BLOCK		P48
SPD-CTL1	9	M	51	01	05		CONN. TAPE DECK		P01
	9	L	51	07	03		BASIS BOARD	FIELD	E07
	9	D	51	08	03		CONN. FEED FOLLOW-UP SYSTEM		J08
	9	B	57	20	25		CONN. PILOT FOLLOW-UP SYST.		J20
Y-END	3	M	51	01	15		CONN. TAPE DECK		P01
	3	L	51	07	14		BASIS BOARD	FIELD	E07
	3	D	51	08	14		CONN. FEED FOLLOW-UP SYSTEM		J08
	3	B	57	20	30		CONN. PILOT FOLLOW-UP SYST.		J20
Y-LOW	5	M	51	01	19		CONN. TAPE DECK		P01
			51	03	13		CONN. STABILIZER		J03
	5	L	51	04	03		BASIS BOARD	FIELD	E04
	5	L	51	04	04		BASIS BOARD	FIELD	E04
	5	L	51	19	08		BASIS BOARD	FIELD	E19
			51	21	20A		CONN. OSCILLATOR		J21
Y-MONO	9	M	51	01	01		CONN. TAPE DECK		P01
	9	L	51	19	02		BASIS BOARD	FIELD	E19
	9	L	51	19	03		BASIS BOARD	FIELD	E19
	1		51	48	22		CONN. HEAD BLOCK		P48
Y-MUTE	4	M	51	01	20		CONN. TAPE DECK		P01
			51	37	20		CONN. REP. AMPL. CH2		J37
	4	L	51	38	04		BASIS BOARD	FIELD	E38
			51	41	20		CONN. REP. AMPL. CH1		J41
Y-OUT1	4	M	51	01	04		CONN. TAPE DECK		P01
	4	L	51	07	06		BASIS BOARD	FIELD	E07
	4	D	51	08	06		CONN. FEED FOLLOW-UP SYSTEM		J08
	4	B	57	20	28		CONN. PILOT FOLLOW-UP SYST.		J20
Y-REC	6	M	51	01	11		CONN. TAPE DECK		P01
	6	L	51	07	01		BASIS BOARD	FIELD	E07
	6	D	51	08	01		CONN. FEED FOLLOW-UP SYSTEM		J08
	6	L	51	19	05		BASIS BOARD	FIELD	E19
	6	L	51	19	06		BASIS BOARD	FIELD	E19
	6	L	51	19	07		BASIS BOARD	FIELD	E19
	2		51	48	04		CONN. HEAD BLOCK		P48
	6	B	57	20	23		CONN. PILOT FOLLOW-UP SYST.		J20
Y-SPEED			51	03	17		CONN. STABILIZER		J03
			51	16	18A		CONN. PILOT AMP.		J16
		L	51	19	18		BASIS BOARD	FIELD	E19
			51	21	17A		CONN. OSCILLATOR		J21
			51	23	17		CONN. REC. AMPL. CH2		J23
			51	27	17		CONN. REC. AMPL. CH1		J27
			51	30	17A		CONN. MONO-STEREO SWITCH		J30
							./.		

SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT		
(CONT.)			51	30	17B		CONN. MONO-STEREO SWITCH		J30
			51	37	17		CONN. REP. AMPL. CH2		J37
			51	41	17		CONN. REP. AMPL. CH1		J41
Y-TRSP	7	M	51	01	14		CONN. TAPE DECK		P01
	7	L	51	07	13		BASIS BOARD	FIELD	E07
	7	D	51	08	13		CONN. FEED FOLLOW-UP SYSTEM		J08
	7	B	57	20	29		CONN. PILOT FOLLOW-UP SYST.		J20
YPS-MOVE	3	F	51	01	18		CONN. TAPE DECK		P01
	3	L	51	19	15		BASIS BOARD	FIELD	E19
			51	21	18B		CONN. OSCILLATOR		J21
YPS-REC	3	M	51	01	12		CONN. TAPE DECK		P01
			51	19	01	R	BASIS BOARD	FIELD	E19
			51	19	04	R	BASIS BOARD	FIELD	E19
0.0	0	M	51	01	13		CONN. TAPE DECK		P01
			51	03	14		CONN. STABILIZER		J03
	0	L	51	07	12		BASIS BOARD	FIELD	E07
	0	D	51	14	03		CONN. FEED FOLLOW-UP SYSTEM		J14
	0	D	51	15	02		CONN. TO PILOT CONN. FIELD		J15
			51	16	14A		CONN. PILOT AMP.		J16
			51	16	14B		CONN. PILOT AMP.		J16
			51	21	14A		CONN. OSCILLATOR		J21
			51	21	14B		CONN. OSCILLATOR		J21
	0	D	51	22	07		CONN. FEED VU PANEL		J22
			51	23	14		CONN. REC. AMPL. CH2		J23
			51	27	14		CONN. REC. AMPL. CH1		J27
			51	28	04		CONN. FEED VU PANEL		J28
			51	28	05		CONN. FEED VU PANEL		J28
			51	30	08A		CONN. MONO-STEREO SWITCH		J30
			51	30	08B		CONN. MONO-STEREO SWITCH		J30
			51	30	09A		CONN. MONO-STEREO SWITCH		J30
			51	30	09B		CONN. MONO-STEREO SWITCH		J30
			51	30	14A		CONN. MONO-STEREO SWITCH		J30
			51	30	14B		CONN. MONO-STEREO SWITCH		J30
			51	34	14		CONN. MODULATION LEVEL MONIT.		J34
	0		51	48	23		CONN. HEAD BLOCK		P48
	0	B	55	39	30		CONN. VU-METER PANEL		J39
	0	L	56	16	03		CONN. PILOT SYSTEM		J16
	0	B	57	20	03		CONN. PILOT FOLLOW-UP SYST.		J20
	0	B	57	20	31		CONN. PILOT FOLLOW-UP SYST.		J20
0.0.0	0	D	51	08	12		CONN. FEED FOLLOW-UP SYSTEM		J08
0-AC1	4	M	51	02	05		CONN. POWER SUPPLY		P02
			51	03	10		CONN. STABILIZER		J03
	4	L	51	04	01		BASIS BOARD	FIELD	E04
0-AC2	7	M	51	02	06		CONN. POWER SUPPLY		P02
	7	L	51	13	08		BASIS BOARD	FIELD	E13
0-AC4	3	M	51	02	08		CONN. POWER SUPPLY		P02
			51	03	20		CONN. STABILIZER		J03
	3	L	51	04	06		BASIS BOARD	FIELD	E04

SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT	
0-BIAS1			51	21	09A		CONN. OSCILLATOR	J21
			51	27	04		CONN. REC. AMPL. CH1	J27
0-BIAS2			51	21	05A		CONN. OSCILLATOR	J21
			51	23	04		CONN. REC. AMPL. CH2	J23
0-INPM	4	N	54	29	03		CONN. MONITOR AMPL.	J29
0-OUTM	9	N	54	29	04		CONN. MONITOR AMPL.	J29
0-REP1	8	L	51	40	01		BASIS BOARD	FIELD E40
			51	41	02		CONN. REP. AMPL. CH1	J41
	2		51	48	01		CONN. HEAD BLOCK	P48
0-REP2	8	L	51	36	01		BASIS BOARD	FIELD E36
			51	37	02		CONN. REP. AMPL. CH2	J37
	2		51	48	13		CONN. HEAD BLOCK	P48

COMMAND SWITCHES 1.081.265 GR 19 EL 1





IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	B 01	51.02.0145	24V,	0,04A T 5,5	
	B 02	51.02.0145	24V,		
	B 03	51.02.0145	24V,		
	B 04	51.02.0145	24V,		
	B 05	51.02.0145	24V,		
	B 06	51.02.0145	24V,		
	D 01	50.04.0125	1N4448	75V 100mA Si	
	D 02	50.04.0125	1N4448		
	D 03	50.04.0125	1N4448		
	D 04	50.04.0125	1N4448		
	D 05	50.04.0125	1N4448		
	D 06	50.04.0125	1N4448		
	D 07	50.04.0125	1N4448		
	D 08	50.04.1512	ZY 15V	5% 1,3W	
	IC 1	50.99.0127	SAS 251	HALL-EFFECT-SWITCH UGN-3019T	SP,S
	IC 2	50.99.0127	SAS 251		
	IC 3	50.99.0127	SAS 251		
	IC 4	50.99.0127	SAS 251		
	IC 5	50.99.0127	SAS 251		
	IC 6	50.99.0127	SAS 251		
	Q 01	50.03.0315	BC 160-16		
	R 01	57.02.5152	1,5 k	10% .25W CMA	
	R 02	57.02.5152	1,5 k		

IND	DATE	NAME	
④			SP = Sprague
③			S = Siemens
②			
①			
○	26.4.78	Schn/gv	

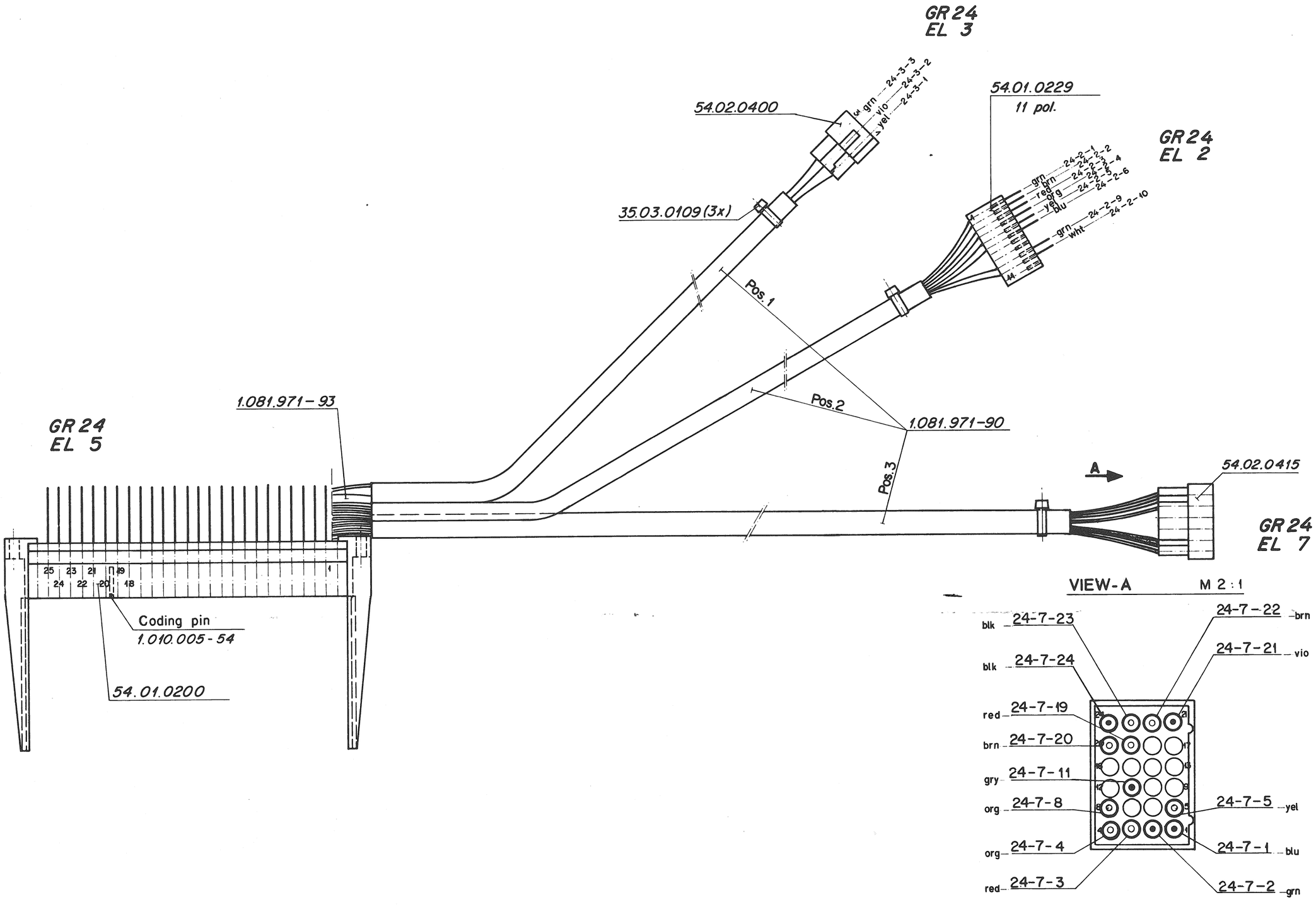
STUDER Command switches,Local Print 1.180.257 PAGE 1 OF 2

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	R 03	57.02.5152	1,5 k	5% .25W CMA	
	R 04	57.02.5101	100		
	R 05	57.02.5472	4,7 k		
	R 06	57.02.5392	3,9 k		
	R 07	57.02.5152	1,5 k		
	R 08	57.56.4101	100	5% 4 W	
	R 09	57.02.5152	1,5 k	5% .25W CMA	

IND	DATE	NAME
④		
③		
②		
①		
○	26.4.78	Schn/gv

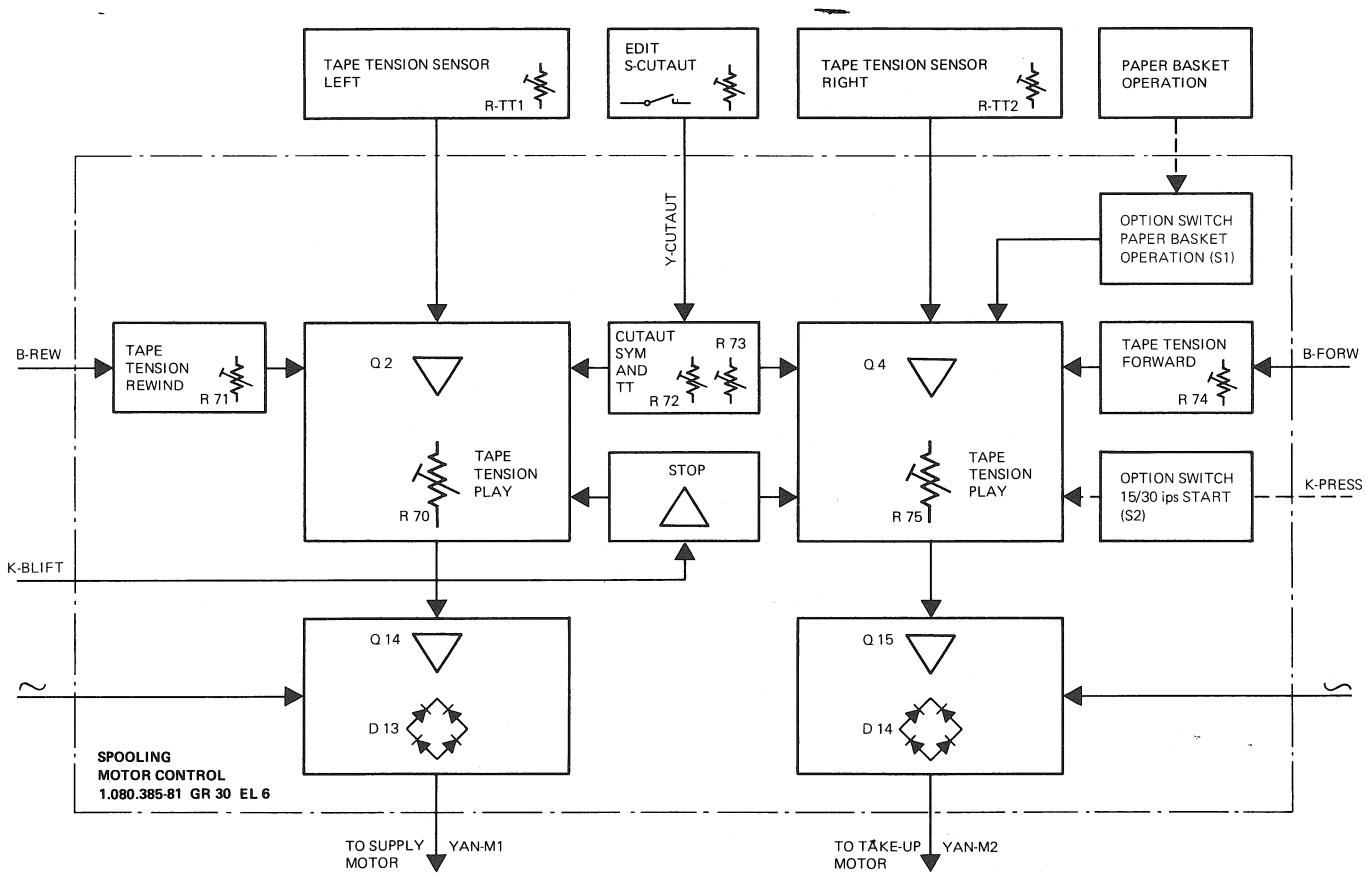
STUDER Command switches,Local Print 1.180.257 PAGE 2 OF 2

WIRE HARNESS TO ZERO LOCATOR 1.081.971



VIEW-A M 2 : 1

SPOOLING MOTOR CONTROL 1.080.385-81 GR 30 EL 6



SPOOLING MOTOR CONTROL 1.080.385-81 GR 30 EL 6

PLAY
SUPPLY MOTOR

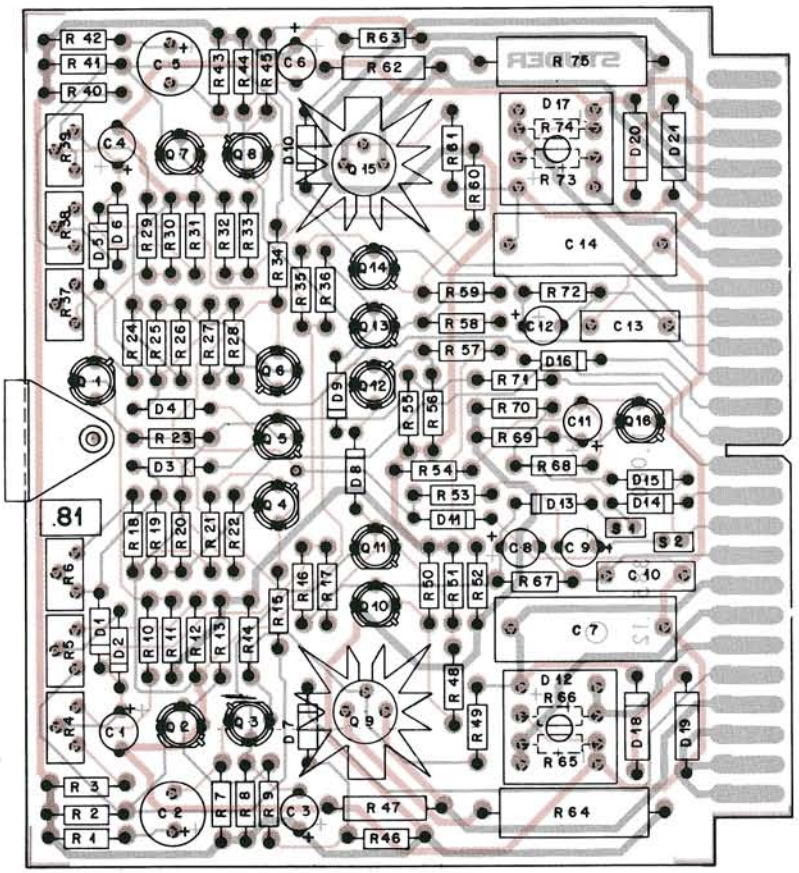
REW

CUT
(EDIT)

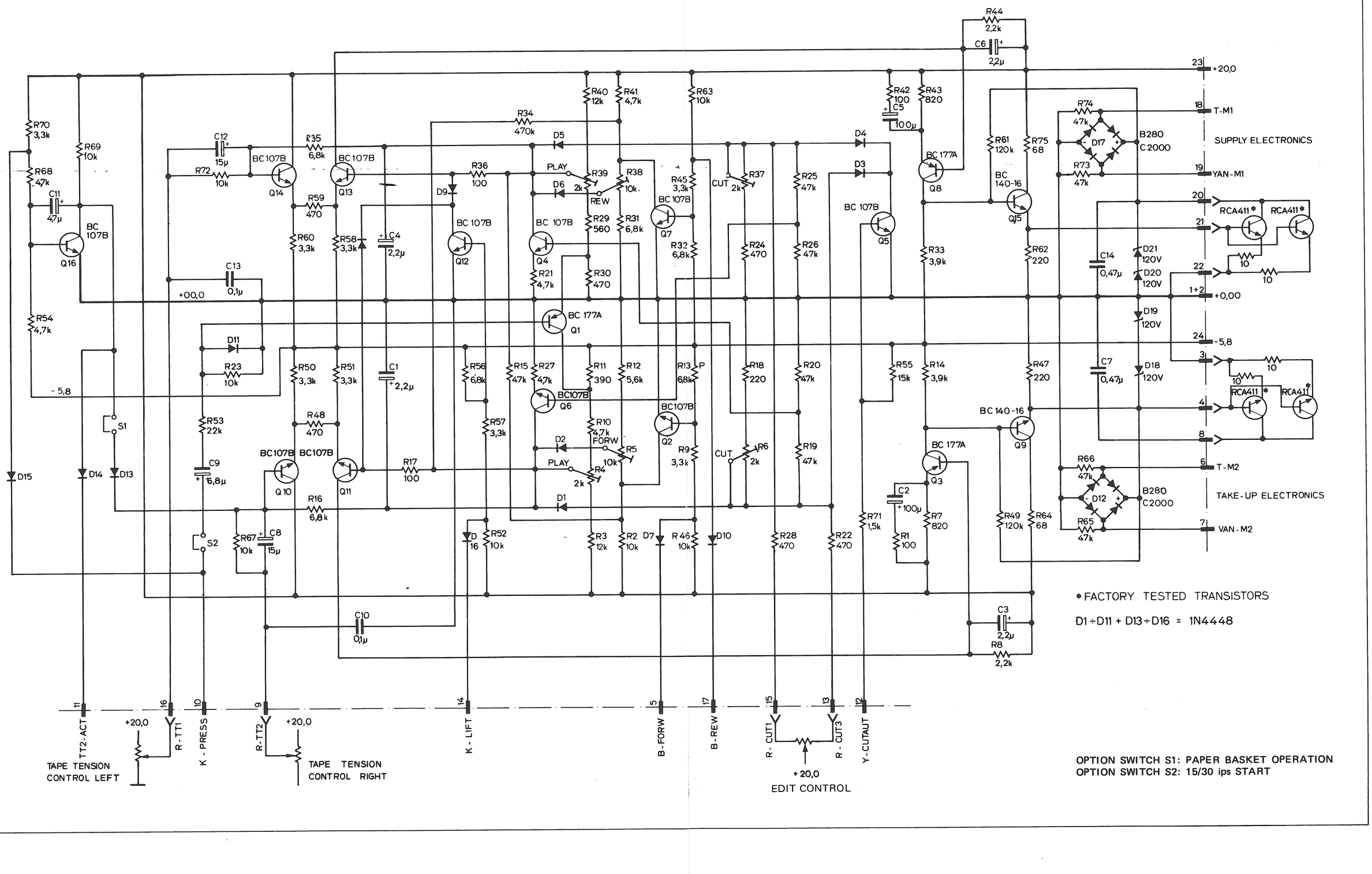
CUT
(EDIT)

FORW

PLAY
TAKE-UP MOTOR



SPOOLING MOTOR CONTROL 1/4" + 1/2" 1.080.385-81 GR 30 EL 6



SPOOLING MOTOR CONTROL 1/4" + 1/2" 1.080.385-81 GR 30 EL 6

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	C 01	59.36.4229	2,2 µF	25V 20% TA	
	C 02	59.22.3101	100 µF	10V -10% EL	
	C 03	59.36.4229	2,2 µF	25V 20% TA	
	C 04	59.36.4229	2,2 µF		
	C 05	59.22.3101	100 µF	10V -10% EL	
	C 06	59.36.4229	2,2 µF	25V 20% TA	
	C 07	59.99.0450	0,47 µF	150V 10% MP	
	C 08	59.30.5150	15 µF	20V 20% TA	
	C 09	59.30.6689	6,8 µF	35V 20% TA	
	C 10	59.05.2104	0,1 µF	100V 10% MPC	
	C 11	59.36.4479	4,7 µF	25V 20% TA	
	C 12	59.30.5150	15 µF	20V 20% TA	
	C 13	59.05.2104	0,1 µF	100V 10% MPC	
	C 14	59.99.0450	0,47 µF	150V 10% MP	
	D 01	50.04.0125	1N4448	75V 100mA	
	D 02				
	D 03				
	D 04				
	D 05				
	D 06				
	D 07				
	D 08				
	D 09				
	D 10				
	D 11	50.04.0125			
	D 12	70.01.0226	2A	280V Rectifier	
	D 13	50.04.0125	1N4448	75V 100mA	
	D 14	50.04.0125			

IND	DATE	NAME	
④			TA = Tantal
③			EL = Electrolytic
②			
①			
○	16.8.79		

STUDER | Spooling Motor Control | 1.080.385-81 | PAGE 1 OF 5

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	D 15	50.04.0125	1N4448	75V 100mA	
	D 16	50.04.0125	1N4448		
	D 17	70.01.0226	2A	280V Rectifier	
	D 18	50.04.1505	120V	Z-Diode 5% 1,3W	
	D 19				
	D 20				
	D 21	50.04.1505			
	Q 01	50.03.0307	BC 177 A	PNP	
	Q 02	50.03.0408	BC 107 B	NPN	
	Q 03	50.03.0307	BC 177 A	PNP	
	Q 04	50.03.0408	BC 107 B	NPN	
	Q 05				
	Q 06				
	Q 07	50.03.0408			
	Q 08	50.03.0307	BC 177 A	PNP	
	Q 09	50.03.0316	BC 140-16	NPN	
	Q 10	50.03.0408	BC 107 B	NPN	
	Q 11				
	Q 12				
	Q 13				
	Q 14	50.03.0408			
	Q 15	50.03.0316	BC 140-16	NPN	
	Q 16	50.03.0408	BC 107 B	NPN	
	R 01	57.41.4101	100 Ω	5% 0,25W CF	
	R 02	57.41.4103	10 k		
	R 03	57.41.4123	12 k		

IND	DATE	NAME	
④			CF = Carbon Film
③			
②			
①			
○	16.8.79		

STUDER | Spooling Motor Control | 1.080.385-81 | PAGE 2 OF 5

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	R 04	58.01.7202	2 k	10% 0,5W Lin. C	
	R 05	58.01.7103	10 k		
	R 06	58.01.7202	2 k		
	R 07	57.41.4821	820 Ω	5% 0,25W CF	
	R 08	57.41.4222	2,2 k		
	R 09	57.41.4332	3,3 k		
	R 10	57.41.4472	4,7 k		
	R 11	57.41.4391	390 Ω		
	R 12	57.41.4562	5,6 k		
	R 13	57.41.4682	6,8 k		
	R 14	57.41.4392	3,9 k		
	R 15	57.41.4473	47 k		
	R 16	57.41.4682	6,8 k		
	R 17	57.41.4101	100 Ω		
	R 18	57.41.4221	220 Ω		
	R 19	57.41.4473	47 k		
	R 20	57.41.4473	47 k		
	R 21	57.41.4472	4,7 k		
	R 22	57.41.4471	470 Ω		
	R 23	57.41.4103	10 k		
	R 24	57.41.4471	470 Ω		
	R 25	57.41.4473	47 k		
	R 26	57.41.4473	47 k		
	R 27	57.41.4472	4,7 k		
	R 28	57.41.4471	470 Ω		
	R 29	57.41.4561	560 Ω		
	R 30	57.41.4471	470 Ω		
	R 31	57.41.4682	6,8 k		
	R 32	57.41.4682	6,8 k		
	R 33	57.41.439	3,9 k		

IND	DATE	NAME	
④			C = Carbon
③			CF = Carbon-Film
②			
①			
○	16.8.79		

STUDER | Spooling Motor Control | 1.080.385-81 | PAGE 3 OF 5

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	R 34	57.41.4474	470 k		
	R 35	57.41.4682	6,8 k		
	R 36	57.41.4101	100 Ω		
	R 37	58.01.7202	2 k	10% 0,5W Lin. C	
	R 38	58.01.7103	10 k		
	R 39	58.01.7202	2 k		
	R 40	57.41.4123	12 k	5% 0,25W CF	
	R 41	57.41.4472	4,7 k		
	R 42	57.41.4101	100 Ω		
	R 43	57.41.4821	820 Ω		
	R 44	57.41.4222	2,2 k		
	R 45	57.41.4332	3,3 k		
	R 46	57.41.4103	10 k		
	R 47	57.42.4221	220 Ω	5% 0,35W CF	
	R 48	57.41.4471	470 Ω	5% 0,25W CF	
	R 49	57.41.4124	120 k		
	R 50	57.41.4332	3,3 k		
	R 51	57.41.4332	3,3 k		
	R 52	57.41.4103	10 k		
	R 53	57.41.4223	22 k		
	R 54	57.41.4472	4,7 k		
	R 55	57.41.4153	15 k		
	R 56	57.41.4682	6,8 k		
	R 57	57.41.4332	3,3 k		
	R 58	57.41.4332	3,3 k		
	R 59	57.41.4471	470 Ω		
	R 60	57.41.4332	3,3 k		
	R 61	57.41.4124	120 k		
	R 62	57.42.4221	220 Ω	5% 0,35W CF	
	R 63	57.41.4103	10 k	5% 0,25W CF	

IND	DATE	NAME	
④			C = Carbon
③			CF = Carbon Film
②			
①			
○	16.8.79		

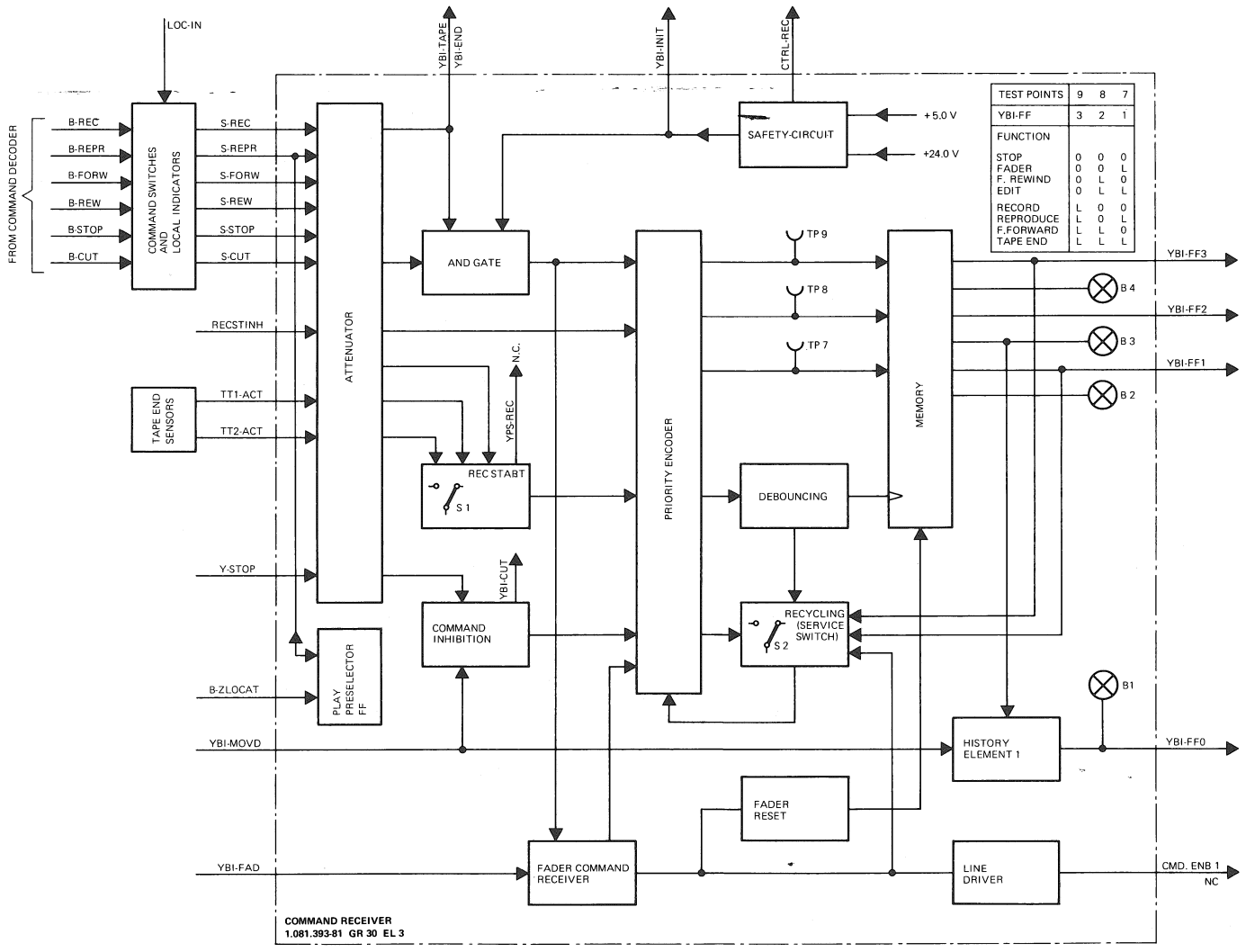
STUDER | Spooling Motor Control | 1.080.385-81 | PAGE 4 OF 5

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	R 64	57.56.4680	68 Ω	5% 4W WW	
	R 65	57.41.4473	47 k	5% 0,25W CF	
	R 66	57.41.4473	47 k		
	R 67	57.41.4103	10 k		
	R 68	57.41.4472	4,7 k		
	R 69	57.41.4103	10 k		
	R 70	57.41.4332	3,3 k		
	R 71	57.41.4152	1,5 k		
	R 72	57.41.4103	10 k		
	R 73	57.41.4473	47 k		
	R 74	57.41.4473	47 k		
	R 75	57.56.4680	68 Ω	5% 4W WW	

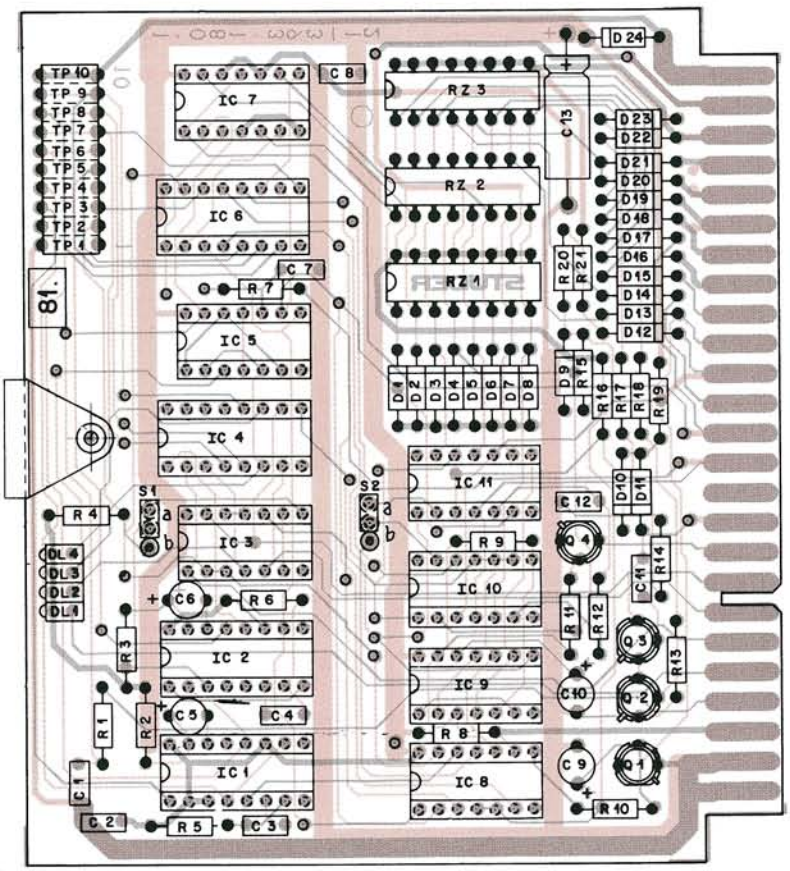
IND	DATE	NAME	
④			WW = Wirewound
③			CF = Carbon Film
②			
①			
○	16.8.79		

STUDER | Spooling Motor Control | 1.080.385-81 | PAGE 5 OF 5

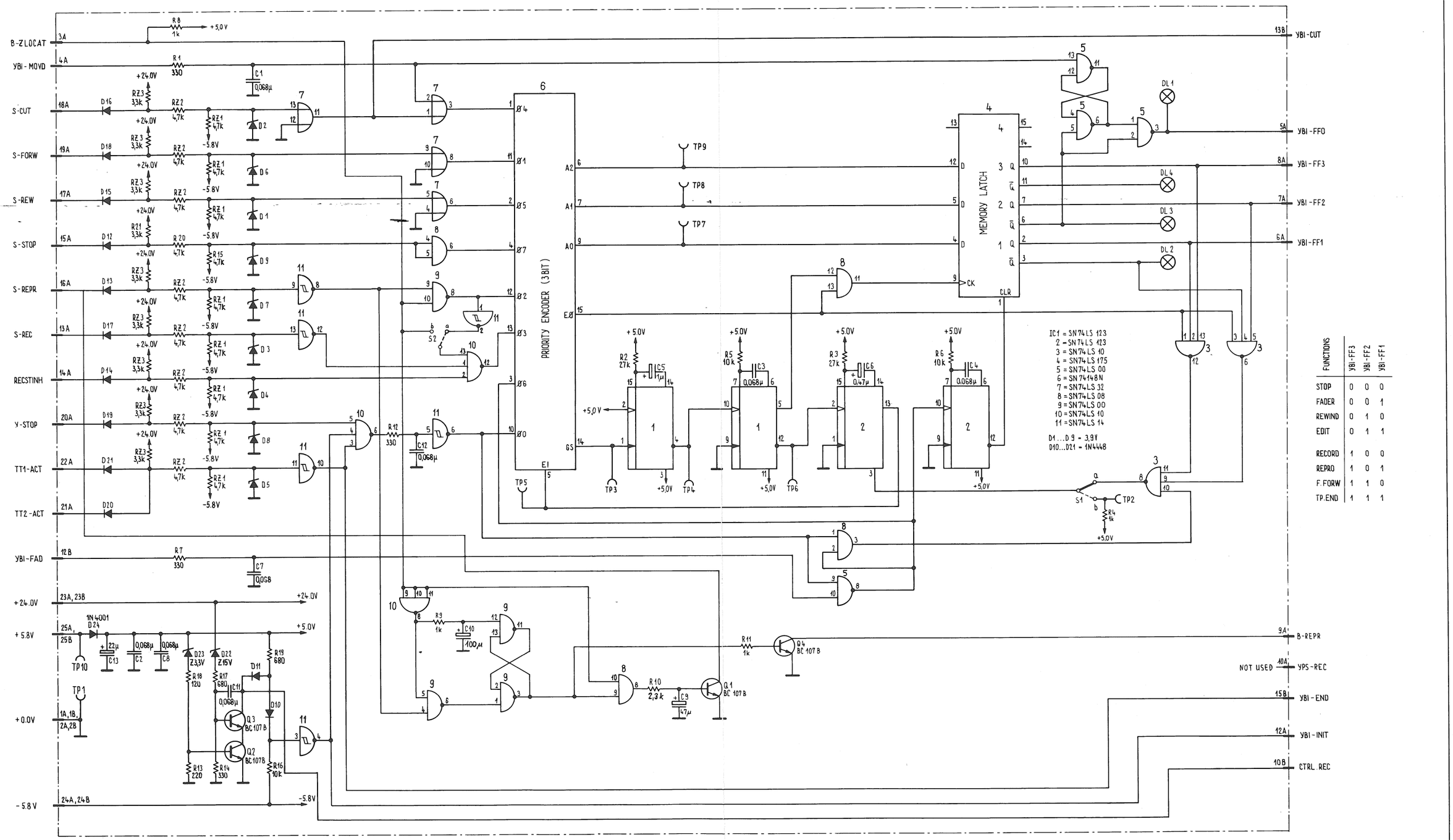
COMMAND RECEIVER 1.081.393-81 GR 30 EL 3



COMMAND RECEIVER 1.081.393-81 GR 30 EL 3



COMMAND RECEIVER 1.081.393-81 GR 30 EL 3



IC 1 = SN 74 LS 123
2 = SN 74 LS 123
3 = SN 74 LS 10
4 = SN 74 LS 175
5 = SN 74 LS 00
6 = SN 7414 8 N
7 = SN 74 LS 32
8 = SN 74 LS 08
9 = SN 74 LS 00
10 = SN 74 LS 10
11 = SN 74 LS 14

D1 ... D 9 = 3,9 Y
D10 ... D21 = 1N 4448

FUNCTIONS	УВІ-FF3	УВІ-FF2	УВІ-FF1
STOP	0	0	0
FADER	0	0	1
REWIND	0	1	0
EDIT	0	1	1
RECORD	1	0	0
REPRO	1	0	1
F.FORW	1	1	0
TP.END	1	1	1

S2 for RECORD Mode:
Pos. A: Press PLAY and REC
Pos. B: Press REC only

S1 for factory test purpose only.

COMMAND RECEIVER 1.081.393-81 GR 30 EL 3

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	C 01	59.99.0205	0,068 uF	63 V CER	
	C 02	59.99.0205	0,068 uF		
	C 03	59.99.0205	0,068 uF		
	C 04	59.99.0205	0,068 uF		
	C 05	59.36.4109	1,0 uF	25 V 20 % TA	
	C 06	59.36.5478	0,47 uF	35 V 20 % TA	
	C 07	59.99.0205	0,068 uF	63 V CER	
	C 08	59.99.0205	0,068 uF		
	C 09	59.36.1470	47 uF	6,3 V 20 % TA	
	C 10	59.22.3101	100 uF		
	C 11	59.99.0205	0,068 uF	63 V. CER	
	C 12	59.99.0205	0,068 uF		
	C 13	59.25.5220	22 uF	40 V -10 % EL	
	D 01	50.04.1101	3,9 V	5 % 0,4 W Si	
	D 02	50.04.1101	3,9 V		
	D 03	50.04.1101	3,9 V		
	D 04	50.04.1101	3,9 V		
	D 05	50.04.1101	3,9 V		
	D 06	50.04.1101	3,9 V		
	D 07	50.04.1101	3,9 V		
	D 08	50.04.1101	3,9 V		
	D 09	50.04.1101	3,9 V		
	D 10	50.04.0125	1 N 4448	75 V 100 mA Si	
	D 11	50.04.0125	1 N 4448		
	D 12	50.04.0125	1 N 4448		
	D 13	50.04.0125	1 N 4448		
	D 14	50.04.0125	1 N 4448		
	D 15	50.04.0125	1 N 4448		

IND	DATE	NAME	
④			CER = Ceramic
③			EL = Electrolytic
②			TA = Tantal
①			
○	11.7.79	Schneider/al	

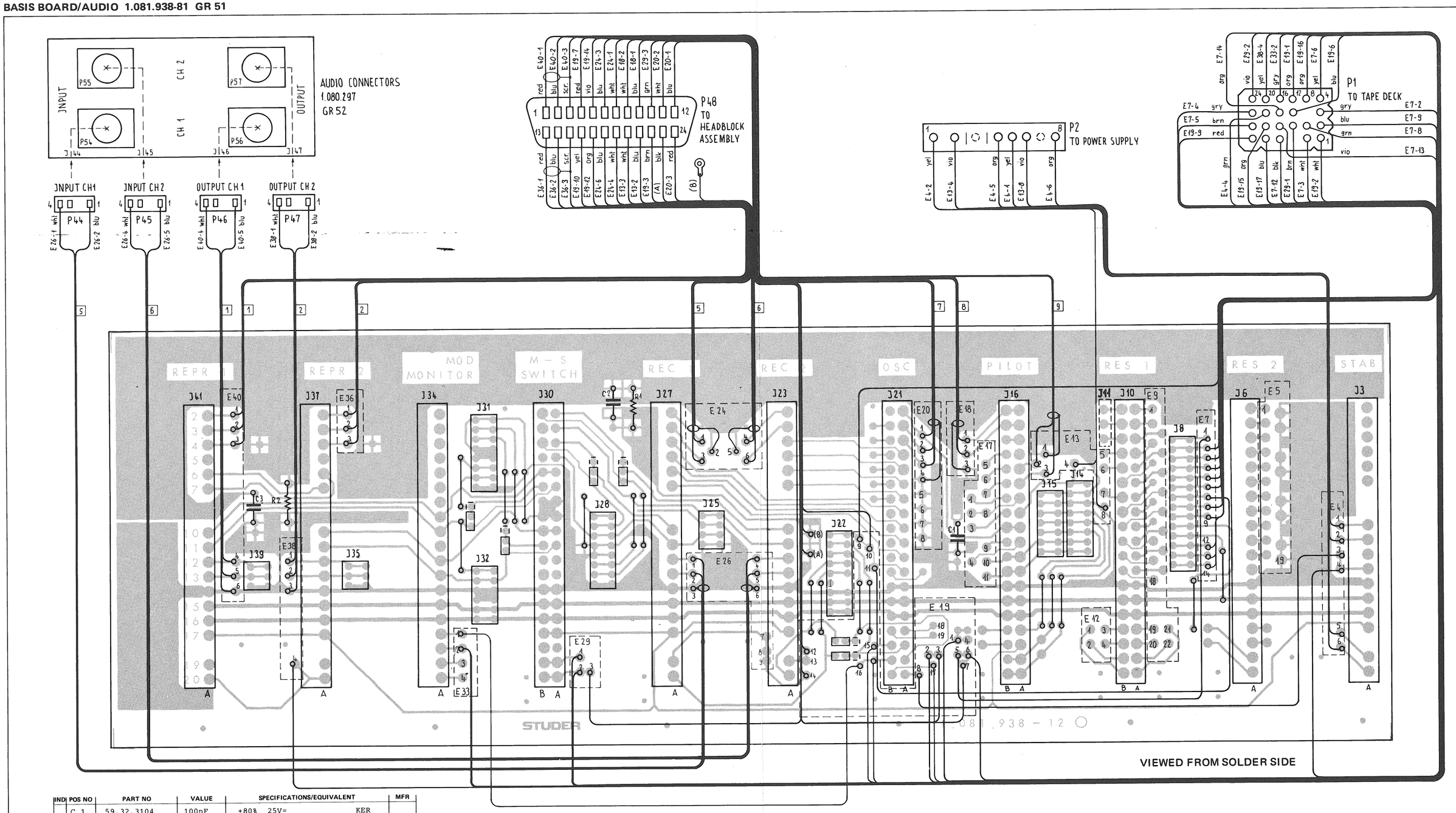
IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	Q 01	50.03.0408	BC 107 B	NPN	
	Q 02	50.03.0408	BC 107 B		
	Q 03	50.03.0408	BC 107 B		
	Q 04	50.03.0408	BC 107 B		
	R 01	57.02.5331	330 Ohm	10 % 0,25 W CF	
	R 02	57.02.5273	27 k		
	R 03	57.02.5273	27 k		
	R 04	57.02.5102	1 k		
	R 05	57.02.5103	10 k		
	R 06	57.02.5103	10 k		
	R 07	57.02.5331	330 Ohm		
	R 08	57.02.5102	1 k		
	R 09	57.02.5102	1 k		
	R 10	57.02.5222	2,3k		
	R 11	57.02.5102	1 k		
	R 12	57.02.5331	330 Ohm		
	R 13	57.02.5221	220 Ohm		
	R 14	57.02.5331	330 Ohm		
	R 15	57.02.5472	4,7 k		
	R 16	57.02.5103	10 k		
	R 17	57.02.5681	680 Ohm		
	R 18	57.02.5121	120 Ohm		
	R 19	57.02.5681	680 Ohm		
	R 20	57.02.5472	4,7 k		
	R 21	57.02.5332	3,3 k		
	RZ 01	57.88.3472	8x 4,7 k	2 % 0,25/1,5 W	
	RZ 02	57.88.3472	8x 4,7 k		
	RZ 03	57.88.3332	8x 3,3 k	2 % 0,25/1,5 W	

IND	DATE	NAME	
④			CF = Carbon Film
③			
②			
①			
○	11.7.79	Schneider/al	

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	D 16	50.04.0125	1 N 4448	75 V 100 mA Si	
	D 17	50.04.0125	1 N 4448		
	D 18	50.04.0125	1 N 4448		
	D 19	50.04.0125	1 N 4448		
	D 20	50.04.0125	1 N 4448		
	D 21	50.04.0125	1 N 4448		
	D 22	50.04.1119	15 V	5 % 0,4 W Si	
	D 23	50.04.1107	3,3 V		
	D 24	50.04.0122	1 N 4001	50 V 1 A 1 N 4002	
	DL 01	50.04.2107	LED red	5 V. 3 mA GaAs 555-207	D
	DL 02	50.04.2107	LED red		
	DL 03	50.04.2107	LED red		
	DL 04	50.04.2107	LED red		
	IC 01	50.06.0123	SN74LS123	Dual retr. MMV	
	IC 02	50.06.0123	SN74LS123		
	IC 03	50.06.0010	SN74LS10	Triple 3-Input NAND	
	IC 04	50.06.0175	SN74LS175	Memory Latch	
	IC 05	50.06.0000	SN74LS00	4x 2-Input NAND	
	IC 06	50.05.0202	SN74148N	Priority Encoder	
	IC 07	50.06.0032	SN74LS32	4x 2-Input OR	
	IC 08	50.06.0008	SN74LS08	4x 2-Input AND	
	IC 09	50.06.0000	SN74LS00	4x 2-Input NAND	
	IC 10	50.06.0010	SN74LS10	Triple 3-Input NAND	
	IC 11	50.06.0014	SN74LS14	Hex Schmitt-Trig. INV.	

IND	DATE	NAME	
④			D= Dialco
③			
②			
①			
○	11.7.79	Schneider/al	

BASIS BOARD/AUDIO 1.081.938-81 GR 51



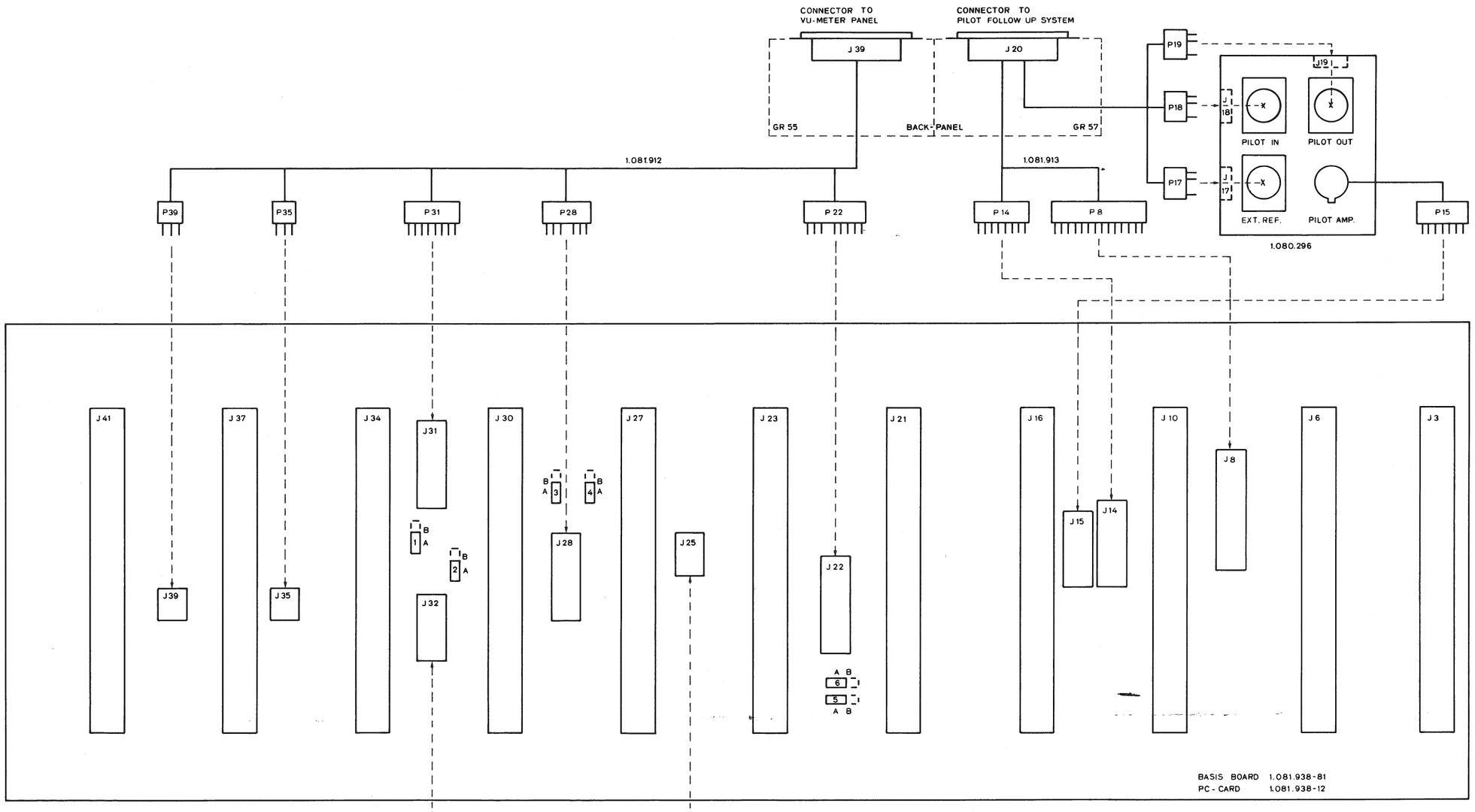
IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	C 1	59.32.3104	100nF	+80% 25V= KER	
	C 2	59.32.3104	100nF	+80% 25V= KER	
	C 3	59.32.3104	100nF	+80% 25V= KER	
	R 1	57.41.4101	100	5% .25W CSCH	
	R 2	57.41.4101	100	5% .25W CSCH	
○	11.4.79	Schlatter			

STUDER | BASIS BOARD A80 RC | 1.081.938-81 | PAGE 1 OF 1

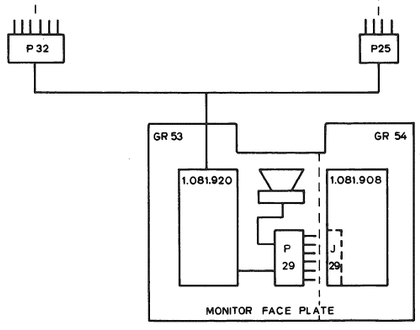
VALID FOR LOCATION PIN LIST
STUDER A80 RC AUDIO SECTION INDEX 1

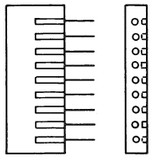
FOR JUMPER POSITIONS SEE PAGE 6/12

LAYOUT OF OPTION CONNECTORS



VIEWED FROM SOLDER SIDE

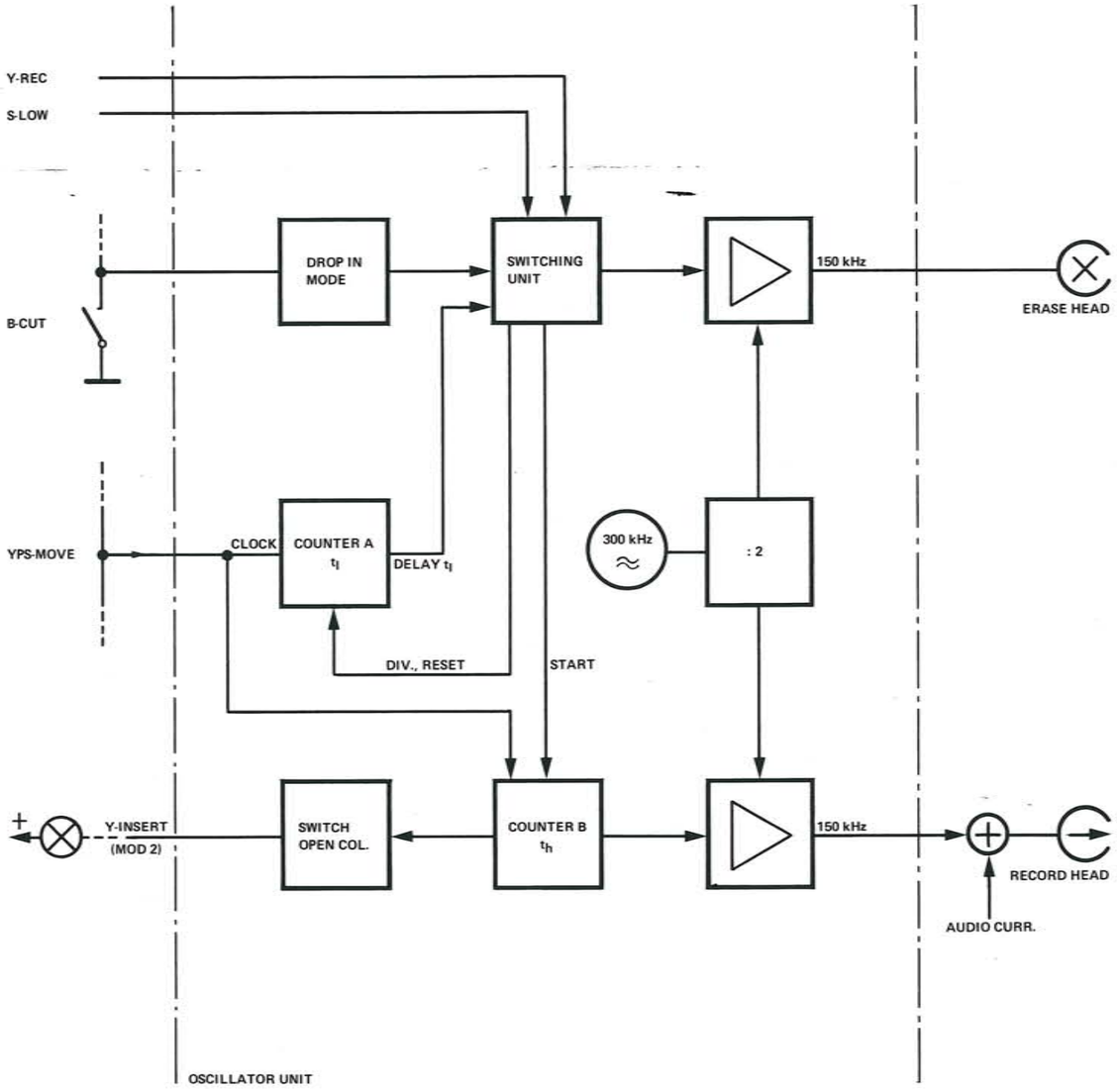


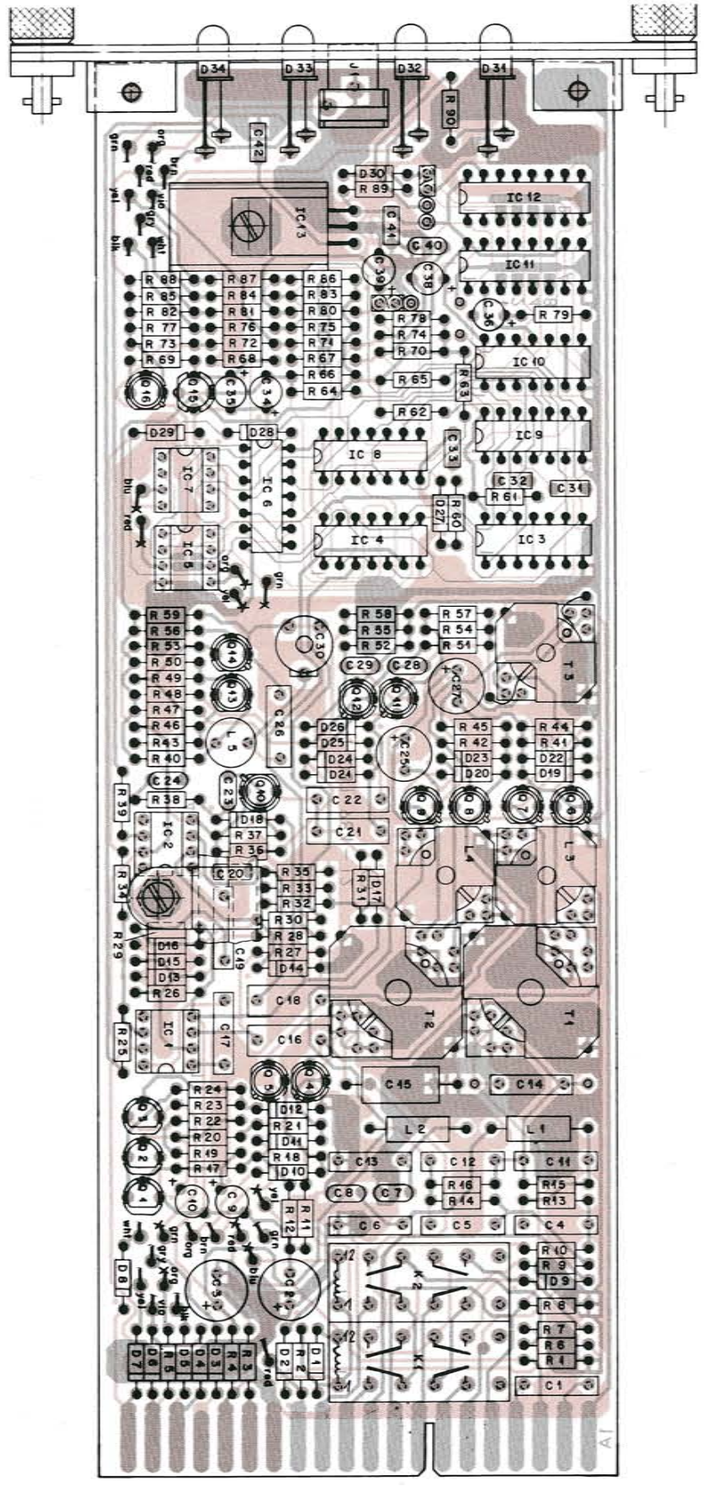


INSERT ALL PERIPHERIAL PLUGS WITH SLOTTED SIDE TOWARDS RIGHT!

JUMPER POSITIONS	
SET JUMPER 1 ... 6 INTO POS. A	FOR NORMAL OPERATION
SET JUMPER 1 ... 4 INTO POS. B	FOR SIMULTANEOUS OPERATION WITH MONO-STEREO SWITCH 1.081.940 AND VU-PANEL.
SET JUMPER 5 + 6 INTO POS. B	FOR OPERATION OF SAFE/READY SWITCH ON VU-PANEL. ALSO FOR MONO-MACHINES

OSCILLATOR 1.081.984 GR 28 EL 7





OSCILLATOR 1.081.984 GR 28 EL 7

	Typ	GND	+ 5V	+ 15 V	- 15 V
IC 1/2	LM 301 AP			PIN 7	PIN 4
IC 3/6/9/10	74 LS 00	PIN 7	PIN 14		
IC 4	74 LS 26	PIN 7	PIN 14		
IC 5/7	SN 75462 P	PIN 4	PIN 8		
IC 8	74 LS 02	PIN 7	PIN 14		
IC 11/12	74 LS 163 AN	PIN 8	PIN 16		
IC 13	LM 340 T-5				

Output GND Input

▽ = Test Point

+24,0 13A +24V
+12,0 16A/B 1 R4 +12V
-12,0 15A/B 1 R3 -12V
0,0 14A/B +5V
Chassis 1A Frontpanel

C2 100µ C3 100µ Input C42 68n IC 13 Output C41 68n

Y-LOW 20A D7
(S-Safe) 17B D3

100 R73 +24V 1µ C35 +5V 3,3µ C34 IC 4 10 8 9 2
Q16 BCY 71 470 R69 Q15 P1228E 3,3k R72 1M R68

2,7k R85 +24V 3,9k R88 +24V 2,7k R87 IC 6 IC 5 IC 7
820 R84 4,7k R64

S-RECD 1 18A D4
S-RECD 2 19A D6 18k R67 22k R70 -12V 1n C40 IC 8 9 10 8
10k R71 15k R74 -12V 3,3k R83 -12V 5,6k R86 39k R66 -12V 2,2µ C38 +5V
IC 7 6 5 7 D32 Start Edit mode +5V 150 R89

B-CUT 20B D8 3,9k R82 +24V 8,2k R81 10k R80 1µ C39 22k R78 -12V 3
IC 6 12 11 13 10 9 8 IC 6 IC 8 3 1 2 4
IC 8 12 13 11 5 6 4 IC 6

+5V IC 11 16 10 7 Counter A (t_l) 2 1 15 9 8 3 4 5 6
1 2 4 8 (set 7)*

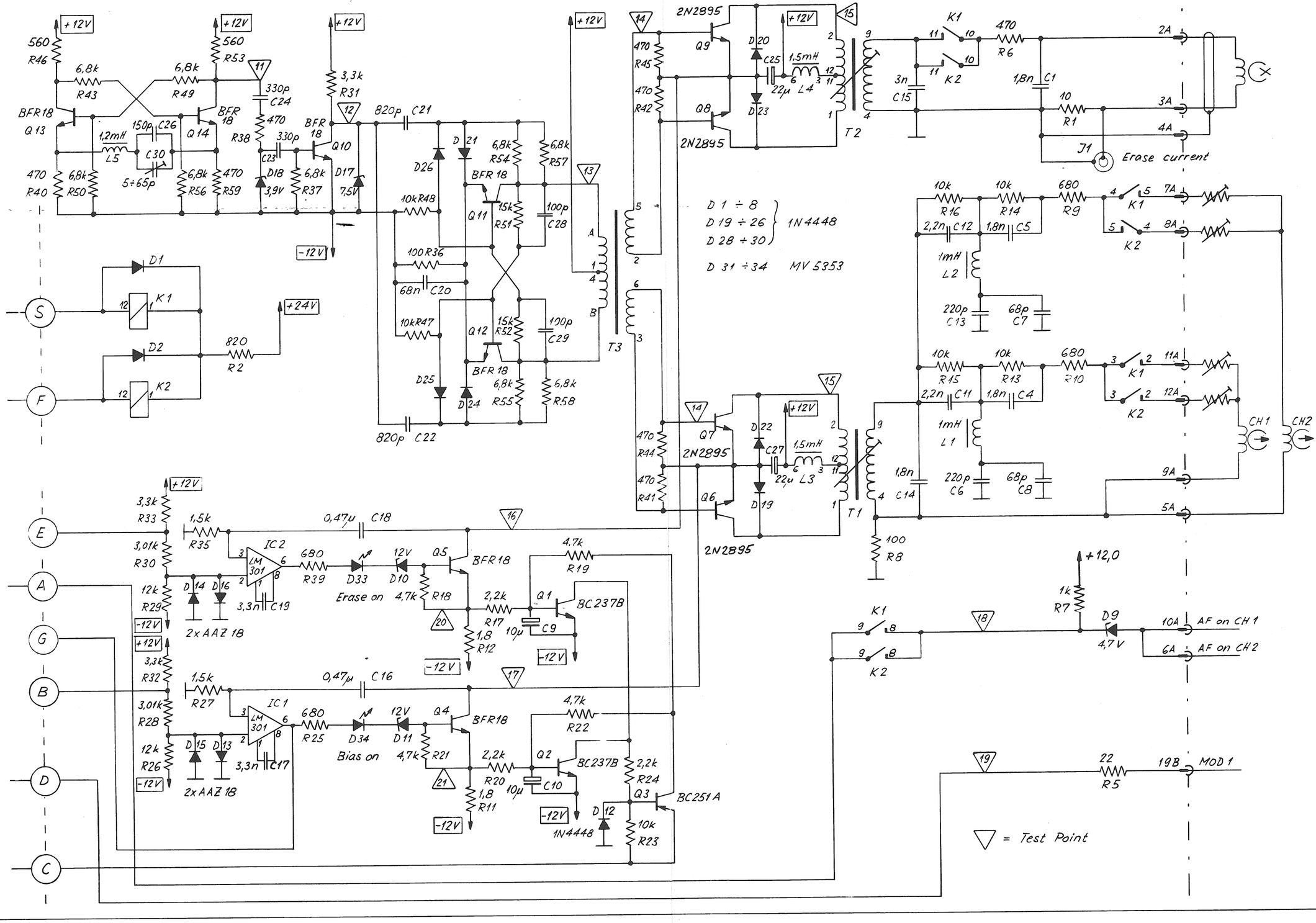
YPS-MOVE 18B D5 +24V 3,9k R77 C37 18k R76 22k R75 -12V
+5V Counter B (t_h) 7 1 2 15 16 9 8 3 4 5 6 10 IC12
1 2 4 8 (set 3)*
IC 10 13 11 12 1
10k R61 68n C32 IC 9 8 9 10 68n C31 3 2 1 22k R65 -12V 22k R62 -12V 68n C33
1k R60 D27 AAZ 18 IC 8 5 4 6 0,47µ C36 680 R79 IC 10 9 10 8 6 5
IC 10 2 3 1 7 IC 9 IC 3 IC 3 IC 3

Normal +5V D30 150 R90 D31 Drop in delay inh. IC 9 4 6 5 8
IC 10 6 4 5 IC 3 10 8 9
Safe Normal

IC 4 1 3 2 E
IC 4 12 11 13 A
+5V D29 R34 22k G
D28 IC 4 5 6 4 B
FACTORY WIRED FOR BIAS-ON-SIGNALING
IC 5 6 5 7 D
C

* valid for 8-holes move sensor disk

OSCILLATOR 1.081.984 GR 28 EL 7



OSCILLATOR 1.081.984 GR 28 EL 7

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	C 01	59.11.6182	1,8 nF	5% 400V	
	C 02	59.22.4101	100 µF	16V	
	C 03	59.22.4101	100 µF	16V	
	C 04	59.11.6182	1,8 nF	5% 400V	
	C 05	59.11.6182	1,8 nF	5% 400V	
	C 06	59.11.6221	220 pF	5% 400V	
	C 07	59.32.1680	68 pF	5% 400V	
	C 08	59.32.1680	68 pF	5% 400V	
	C 09	59.36.3100	10 µF	20% 16V	
	C 10	59.36.3100	10 µF	20% 16V	
	C 11	59.11.6222	2,2 nF	5% 400V	
	C 12	59.11.6222	2,2 nF	5% 400V	
	C 13	59.11.6221	220 pF	5% 400V	
	C 14	59.11.6182	1,8 nF	5% 400V	
	C 15	59.12.9302	3,0 nF	5% 400V	
	C 16	59.02.0474	0,47 µF	5% 63V	
	C 17	59.11.6332	3,3 nF	63V	
	C 18	59.02.0474	0,47 µF	5% 63V	
	C 19	59.11.6332	3,3 nF	63V	
	C 20	59.99.0205	68 nF	40V	
	C 21	59.11.6821	820 pF	5% 63V	
	C 22	59.11.6821	820 pF	5% 63V	
	C 23	59.34.4331	330 pF	40V	
	C 24	59.34.4331	330 pF	40V	
	C 25	59.22.6220	22 µF	25V	
	C 26	59.11.6151	150 pF	5% 63V	
	C 27	59.22.6220	22 µF	25V	
	C 28	59.34.2101	100 pF	5% 40V	
	C 29	59.34.2101	100 pF	5% 40V	
	C 30	59.18.0102	5÷65 pF	63V	

IND	DATE	NAME
④		
③		
②		
①		
○	14.3.79	Buchegger

STUDER | Oscillator | 1.081.984 | PAGE 1 OF 8

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	D 14	50.04.0954	AAZ 18		P
	D 15	50.04.0954	AAZ 18		P
	D 16	50.04.0954	AAZ 18		P
	D 17	50.04.1102	7,5V Z		
	D 18	50.04.1101	3,9V Z		P, Tr
	D 19	50.04.0125	1N4448		P, Tr
	D 20	50.04.0125	1N4448		P, Tr
	D 21	50.04.0125	1N4448		P, Tr
	D 22	50.04.0125	1N4448		P, Tr
	D 23	50.04.0125	1N4448		P, Tr
	D 24	50.04.0125	1N4448		P, Tr
	D 25	50.04.0125	1N4448		P, Tr
	D 26	50.04.0125	1N4448		P, Tr
	D 27	50.04.0954	AAZ 18		P
	D 28	50.04.0125	1N4448		P, Tr
	D 29	50.04.0125	1N4448		P, Tr
	D 30	50.04.0125	1N4448		P, Tr
	D 31	50.04.2112	MV5353	LED, yellow	Ms
	D 32	50.04.2112	MV5353	LED, yellow	Ms
	D 33	50.04.2112	MV5353	LED, yellow	Ms
	D 34	50.04.2112	MV5353	LED, yellow	Ms
	IC 01	50.05.0257	LM 301 AP	LM 301 AN	TI, N
	IC 02	50.05.0257	LM 301 AP	LM 301 AN	TI, N
	IC 03	50.06.0000	74LS00N		TI, Si
	IC 04	50.06.0026	74LS26N		TI, Si

IND	DATE	NAME
④		
③		
②		
①		
○	14.3.79	Buchegger

P = Philips Si = Signetics
Tr = Transitron
Ms = Monsanto
TI = Texas Instruments
N = National Semiconductors

STUDER | Oscillator | 1.081.984 | PAGE 3 OF 8

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	Q 01	50.03.0436	BC 237B	BC 107B	P,S,M
	Q 02	50.03.0436	BC 237B	BC 107B	P,S,M
	Q 03	50.03.0217	BC 251A	BC 177A	ITT
	Q 04	50.03.0434	BFR 18		SA
	Q 05	50.03.0434	BFR 18		SA
	Q 06	50.03.0511	2N2895	U_{CEO} min. 100V BFR 18 sel.	M, SA
	Q 07	50.03.0511	2N2895	U_{CEO} min 100V BFR 18 sel.	M, SA
	Q 08	50.03.0511	2N2895	U_{CEO} min 100V BFR 18 sel.	M, SA
	Q 09	50.03.0511	2N2895	U_{CEO} min 100V BFR 18 sel.	M, SA
	Q 10	50.03.0434	BFR 18		SA
	Q 11	50.03.0434	BFR 18		SA
	Q 12	50.03.0434	BFR 18	"	SA
	Q 13	50.03.0434	BFR 18		SA
	Q 14	50.03.0434	BFR 18		SA
	Q 15	50.03.0229	P 1228 E	SPF 316	Tel, M
	Q 16	50.03.0482	BCY 71	BCY 67	P, S
	R 01	57.11.4100	10 Ω		
	R 02	57.02.5821	820 Ω		
	R 03	57.11.4109	1 Ω		
	R 04	57.11.4109	1 Ω		
	R 05	57.11.4220	22 Ω		
	R 06	57.02.5471	470 Ω		
	R 07	57.02.4102	1 kΩ		
	R 08	57.11.4101	100 Ω		
	R 09	57.02.5681	680 Ω		
	R 10	57.02.5681	680 Ω		

IND	DATE	NAME
④		
③		
②		
①		
○	14.3.79	Buchegger

P = Philips Ta = Telefunken
S = Siemens
M = Motorola
ITT = Intermetall
SA = SGS Ates

STUDER | Oscillator | 1.081.984 | PAGE 5 OF 8

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	R 41	57.11.4471	470 Ω		
	R 42	57.11.4471	470 Ω		
	R 43	57.11.4682	6,8 kΩ		
	R 44	57.11.4471	470 Ω		
	R 45	57.11.4471	470 Ω		
	R 46	57.02.5561	560 Ω		
	R 47	57.11.4103	10 kΩ		
	R 48	57.11.4103	10 kΩ		
	R 49	57.11.4682	6,8 kΩ		
	R 50	57.11.4682	6,8 kΩ		
	R 51	57.11.4153	15 kΩ		
	R 52	57.11.4153	15 kΩ		
	R 53	57.02.5561	560 Ω		
	R 54	57.02.5682	6,8 kΩ		
	R 55	57.02.5682	6,8 kΩ		
	R 56	57.11.4682	6,8 kΩ		
	R 57	57.02.5682	6,8 kΩ		
	R 58	57.02.5682	6,8 kΩ		
	R 59	57.02.5471	470 Ω		
	R 60	57.11.4102	1 kΩ		
	R 61	57.11.4103	10 kΩ		
	R 62	57.11.4223	22 kΩ		
	R 63	57.11.4223	22 kΩ		
	R 64	57.11.4472	4,7 kΩ		
	R 65	57.11.4223	22 kΩ		
	R 66	57.11.4393	39 kΩ		
	R 67	57.11.4183	18 kΩ		
	R 68	57.11.4105	1 MΩ		
	R 69	57.11.4471	470 Ω		
	R 70	57.11.4223	22 kΩ		

IND	DATE	NAME
④		
③		
②		
①		
○	14.3.79	Buchegger

STUDER | Oscillator | 1.081.984 | PAGE 7 OF 8

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	C 31	59.99.0205	68 nF	63V	
	C 32	59.99.0205	68 nF	63V	
	C 33	59.99.0205	68 nF	63V	
	C 34	59.30.3330	33 µF	10V	
	C 35	59.36.4109	1 µF	25V	
	C 36	59.36.5478	0,47 µF	25V	
	C 37				
	C 38	59.36.4229	2,2 µF	25V	
	C 39	59.36.4109	1 µF	25V	
	C 40	59.32.4102	1 nF	63V	
	C 41	59.99.0205	68 nF	63V	
	C 42	59.99.0205	68 nF	63V	
	D 01	50.04.0125	1N4448		P, Tr
	D 02	50.04.0125	1N4448		P, Tr
	D 03	50.04.0125	1N4448		P, Tr
	D 04	50.04.0125	1N4448		P, Tr
	D 05	50.04.0125	1N4448		P, Tr
	D 06	50.04.0125	1N4448		P, Tr
	D 07	50.04.0125	1N4448		P, Tr
	D 08	50.04.0125	1N4448		P, Tr
	D 09	50.04.1123	4,7V Z		
	D 10	50.04.1117	12V Z		
	D 11	50.04.1117	12V Z		
	D 12	50.04.0125	1N4448		P, Tr
	D 13	50.04.0954	AAZ 18		P

IND	DATE	NAME
④		
③		
②		
①		
○	14.3.79	Buchegger

P = Philips
Tr = Transitron
M = Motorola

STUDER | Oscillator | 1.081.984 | PAGE 2 OF 8

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	IC 05	50.05.0227	SN 75462 P		TI
	IC 06	50.06.0000	74LS00N		TI, Si
	IC 07	50.05.0227	SN 75462 P		TI
	IC 08	50.06.0002	74LS02N		TI, Si
	IC 09	50.06.0000	74LS00N		TI, Si
	IC 10	50.06.0000	74LS00N		TI, Si
	IC 11	50.06.0163	74LS163AN		TI, Si
	IC 12	50.06.0163	74LS163AN		TI, Si
	IC 13	50.05.0221	LM 340T-5	MC 7805 CP	N, M
	K 01	56.04.0131	AG 3043	S 4 - 12V	No
	K 02	56.04.0131	AG 3043	S 4 - 12V	No
	L 01	62.01.0128	1 mH	16 - 104 / 2307 - 105	Go, De
	L 02	62.01.0128	1 mH		Go, De
	L 03	1.022.197	1,5 mH		ST
	L 04	1.022.197	1,5 mH		ST
	L 05	62.02.2122	1,2 mH	CSL 0812 - 122 J	TDK

IND	DATE	NAME
④		
③		
②		
①		
○	14.3.79	Buchegger

TI = Texas Instruments Go = Gowanda
Si = Signetics De = Dekvan
M = Motorola ST = STUDER
N = National Semiconductors TDK = TDK-Electronics
NO = National

STUDER | Oscillator | 1.081.984 | PAGE 4 OF 8

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	R 11	57.11.4189	1,8 Ω		
	R 12	57.11.4189	1,8 Ω		
	R 13	57.11.4103	10 kΩ		
	R 14	57.11.4103	10 kΩ		
	R 15	57.11.4103	10 kΩ		
	R 16	57.11.4103	10 kΩ		
	R 17	57.11.4222	2,2 kΩ		
	R 18	57.11.4472	4,7 kΩ		
	R 19	57.11.4472	4,7 kΩ		
	R 20	57.11.4222	2,2 kΩ		
	R 21	57.11.4472	4,7 kΩ		
	R 22	57.11.4472	4,7 kΩ		
	R 23	57.11.4103	10 kΩ		
	R 24	57.11.4222	2,2 kΩ		
	R 25	57.11.4681	680 Ω		
	R 26	57.11.4123	12 kΩ		
	R 27	57.11.4152	1,5 kΩ		
	R 28	57.29.3011	3,01 kΩ		
	R 29	57.11.4123	12 kΩ		
	R 30	57.39.3011	3,01 kΩ		
	R 31	57.02.5332	3,3 kΩ		
	R 32	57.11.4332	3,3 kΩ		
	R 33	57.11.4332	3,3 kΩ		
	R 34	57.11.4223	22 kΩ		
	R 35	57.11.4152	1,5 kΩ		
	R 36	57.02.5101	100 Ω		
	R 37	57.11.4682	6,8 kΩ		
	R 38	57.11.4471	470 Ω		
	R 39	57.11.4681	680 Ω		
	R 40	57.02.5471	470 Ω		

IND	DATE	NAME
④		
③		
②		
①		
○	14.3.79	Buchegger

STUDER | Oscillator | 1.081.984 | PAGE 6 OF 8

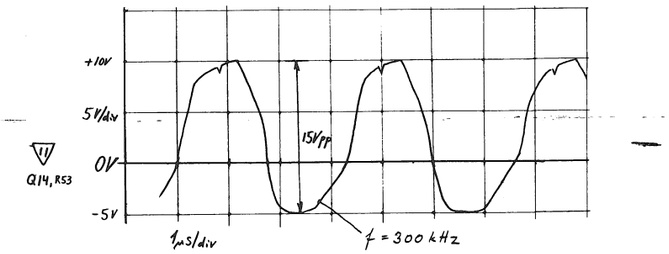
IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
	R 71	57.11.4103	10 kΩ		
	R 72	57.02.5232	3,2 kΩ		
	R 73	57.11.4101	100 Ω		
	R 74	57.11.4153	15 kΩ		
	R 75	57.11.4223	22 kΩ		
	R 76	57.11.4183	18 kΩ		
	R 77	57.02.5392	3,9 kΩ		
	R 78	57.11.4223	22 kΩ		
	R 79	57.11.4681	680 Ω		
	R 80	57.11.4103	10 kΩ		
	R 81	57.11.4822	8,2 kΩ		
	R 82	57.02.5392	3,9 kΩ		
	R 83	57.11.4332	3,3 kΩ		
	R 84	57.11.4821	820 Ω		
	R 85	57.02.5272	2,7 kΩ		
	R 86	57.11.4562	5,6 kΩ		
	R 87	57.11.4272	2,7 kΩ		
	R 88	57.02.5392	3,9 kΩ		
	R 89	57.11.4151	150 Ω		
	R 90	57.11.4151	150 Ω		
	T 01	1.022.200			ST
	T 02	1.022.199			ST
	T 03	1.022.198			ST

IND	DATE	NAME
④		
③		
②		
①		
○	14.3.79	Buchegger

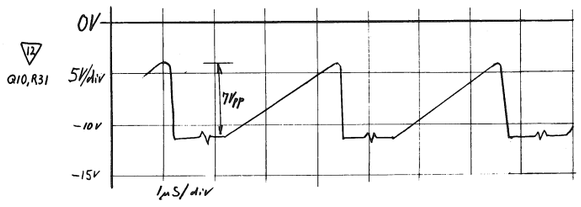
ST = STUDER

STUDER | Oscillator | 1.081.984 | PAGE 8 OF 8

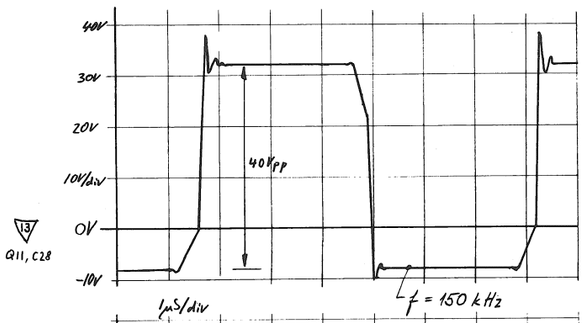
OSCILLATOR 1.081.984 GR 28 EL 7 / WAVE FORMS AND TIMING



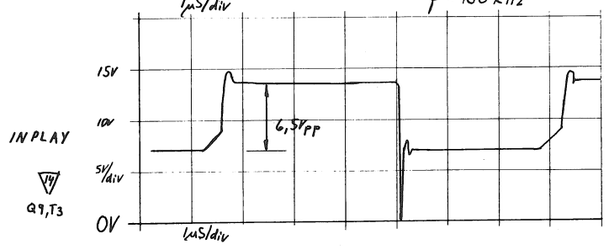
11 Q14, R53



12 Q10, R31

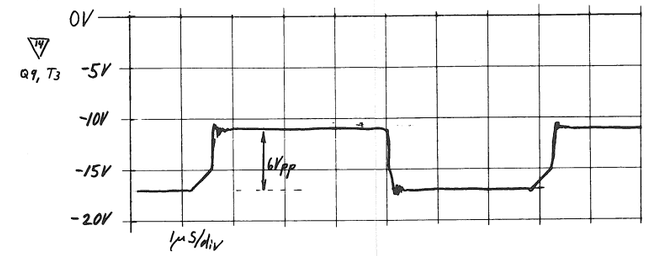


13 Q11, C28

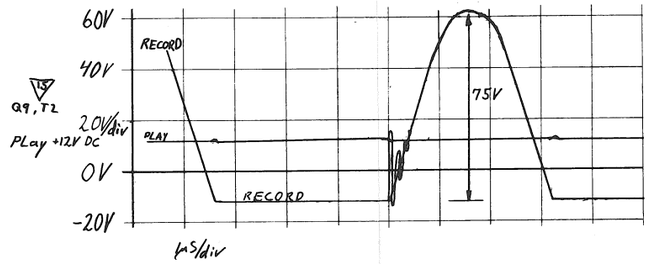


14 Q9, T3

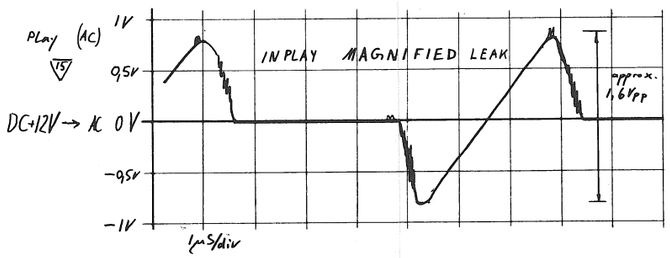
IN RECORD

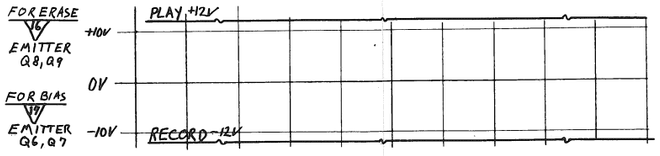


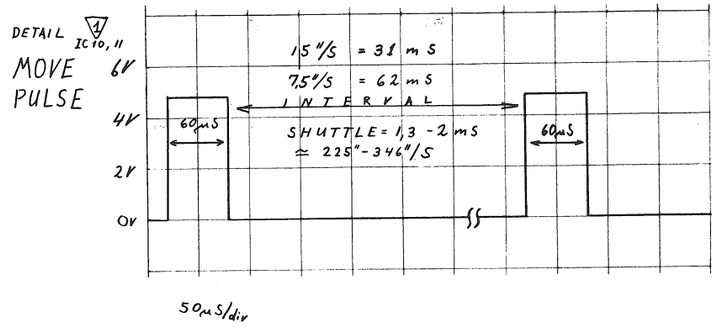
14 Q9, T3



15 Q9, T2
PLay +12V DC







18 K1, 8 — AUDIO DROP-IN COMMAND FOR RECORD AMPLIFIER
LOW FOR AUDIO INSERT
DROP IN POINT → 7
DROP OUT POINT → 17, end of drop out ramp

19 IC5, 5; R5 — STATUS BIAS LOW FOR BIAS ON (300mA Sink current capability, 24V)
OPTIONAL:
STATUS ERASE LOW FOR ERASE ON
WIRED FOR: STATUS BIAS

OSCILLATOR 1.081.984 GR 28 EL 7 / WAVE FORMS AND TIMING