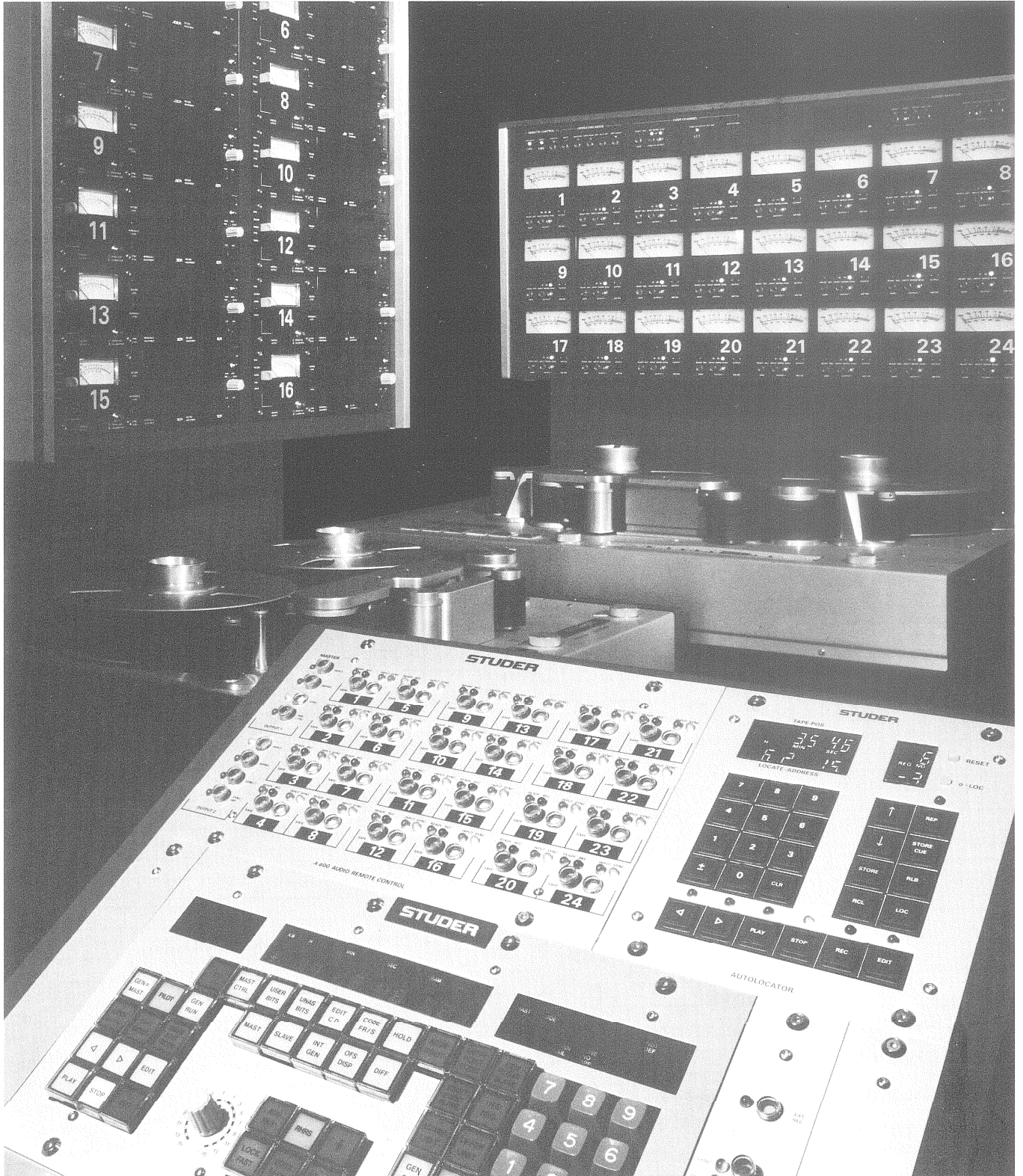


STUDER

# AUDIO REMOTE CONTROL TO A80 VU

BEDIENUNGSANLEITUNG  
OPERATING INSTRUCTIONS



Prepared and edited by

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**SICHERHEIT**

Durch Entfernen von Gehäuseteilen, Abschirmungen etc. werden stromführende Teile freigelegt. Aus diesem Grunde müssen die folgenden Sicherheitsvorschriften unbedingt beachtet werden:

**1. Eingriffe in ein Gerät**

dürfen nur von Fachpersonal vorgenommen werden.

**2. Vor Entfernen von Gehäuseteilen:**

Gerät ausschalten und vom Netz trennen.

**3. Bei geöffnetem Gerät:**

- Netzteil- oder Motorkondensatoren mit einem passenden Widerstand entladen.
- Bauteile grosser Leistung, wie Leistungstransistoren und -widerstände sowie Magnetspulen und Wickelmotoren erst nach dem Abkühlen berühren.

**4. Servicearbeiten bei geöffnetem, unter Spannung stehendem Gerät:**

- Keine blanken Schaltungssteile berühren
- Isolierte Werkzeuge verwenden
- Metallene Halbleitergehäuse nicht berühren, da sie hohe Spannungen aufweisen können.

**ERSTE HILFE** (bei Stromunfällen)**1. Bei einem Stromunfall die betroffene Person raschmöglichst vom Strom**

- Durch Ausschalten des Gerätes
- Ausziehen oder Unterbrechen der Netzzuleitung
- Betroffene Person mit isolierendem Material (Holz, Kunststoff) von der Gefahrenquelle wegstossen
- Nach einem Stromunfall sollte immer ein Arzt aufgesucht werden.

**ACHTUNG**

EINE UNTER SPANNUNG STEHENDE PERSON DARF NICHT BERÜHRT WERDEN, SIE KÖNNEN DABEI SELBST ELEKTRISIERT WERDEN!

**2. Bei Bewusstlosigkeit des Verunfallten:**

- Puls kontrollieren,
- bei ausgesetzter Atmung künstlich beatmen,
- Seitenlagerung des Verunfallten und Arzt verständigen.

**SAFETY**

There are no user serviceable components inside the equipment, live parts are laid open when removing protective covers and shieldings. It is essential therefore to ensure that the subsequent safety rules are strictly observed when performing service work or repairs.

**1. Servicing of electronic equipment** must be performed by qualified personnel only.**2. Before removing covers:**

Switch off the equipment and unplug the mains cable.

**3. When the equipment is open:**

- Discharge power supply- and motor capacitors through a suitable resistor.
- Components, that carry heavy electrical loads, such as power transistors and resistors as well as solenoid coils and motors should not be touched before a cooling off interval, as a precaution to avoid burns.

**4. Servicing unprotected and operating equipment:**

- Never touch bare wires or circuitry
- Use insulated tools only
- Never touch metal semiconductor cases because they may carry high voltages.

**FIRST AID** (in case of electric shock)**1. Separate the person as quickly as possible from the electric power source:**

- by switching off the equipment,
- unplugging or disconnecting the mains cable,
- pushing the person away from the power source by using dry insulating material (such as wood or plastic).
- After having sustained an electric shock, always consult a doctor.

**WARNING:**

DO NOT TOUCH THE PERSON OR HIS CLOTHING BEFORE POWER IS TURNED OFF, OTHERWISE YOU STAND THE RISK OF SUSTAINING AN ELECTRIC SHOCK AS WELL!

**2. If the person is unconscious**

- Check the pulse,
- reanimate the person if respiration is poor,
- lay the body down and turn it to one side, call for a doctor immediately.

**SÉCURITÉ**

Si les couvercles de protection sont enlevés, les parties de l'appareil qui sont sous tension ne sont plus protégées. Il est donc d'une nécessité absolue de suivre les instructions suivantes:

**1. Les interventions dans les appareils électriques**

doivent être faites uniquement que par du personnel qualifié

**2. Avant d'enlever les couvercles de protection:**

Couper l'interrupteur principal et débrancher le câble secteur.

**3. Après avoir enlevé les couvercles de protection:**

- Les condensateurs de l'alimentation et des moteurs doivent être déchargés à l'aide d'une résistance appropriée.
- Il est prudent de laisser refroidir les composants de haute puissance, par ex.: transistors de puissance, résistances de puissances de même que des électroaimants et les moteurs de bobinage.

**4. S'il faut que l'appareil soit sous tension pendant les réglages internes:**

- Ne jamais toucher les circuits non isolés
- Travailler seulement avec des outils isolés

**PREMIERS SECOURS** (en cas d'électrocution)**1. Si la personne est dans l'impossibilité de se libérer:**

- Couper l'interrupteur principal
- Couper le courant
- Repousser la personne de l'appareil à l'aide d'un objet en matière non conductrice (matière plastique ou bois)
- Après une électrocution, consulter un médecin.

**ATTENTION**

NE JAMAIS TOUCHER UNE PERSONNE QUI EST SOUS TENSION, SOUS PEINE DE SUBIR ÉGALEMENT UNE ÉLECTROCUTION!

**2. En cas de perte de connaissance de la personne électrocutée:**

- Contrôler le pouls
- Si nécessaire, pratiquer la respiration artificielle
- Mettre l'accidenté sur le côté latérale et consulter un médecin.

1. ALLGEMEINES

1. GENERAL

1.1  
Einleitung

Für die Mehrkanalaufnahme- und Abmisch-technik sind Audiokanal-Fernsteuerungen unentbehrliche Instrumente. In Griffnähe im oder am Mischpult ermöglichen sie die gewünschte Beeinflussung der jeweiligen Audiokanal-Ausgänge.

Die vollständige Fernsteuerbarkeit der Ausgänge, individuell oder über Master-Funktionen, gibt dem Toningenieur die erforderliche Flexibilität zur kreativen Arbeit ohne unnötige Belastung.

1.1  
Introduction

Audio channel remote controls are indispensable for multichannel recording and mixing down. Close at hand in or on the mixing console they allow the respective audio channel outputs to be influenced as required.

The possibility of remote controlling all outputs, either individually or through master functions, gives the sound engineer the flexibility needed to work creatively without unnecessary inconveniences.

1.2  
Bestellinformation

1.2  
Ordering information

1.2.1  
Audio-Fernsteuerungen

1.2.1  
Audio remote controls

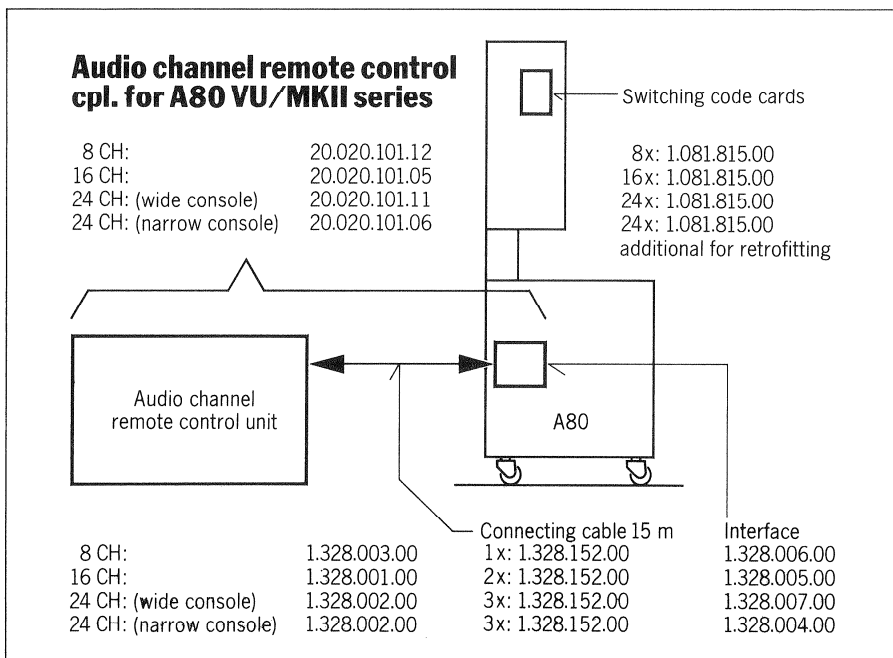


Fig 1.1

1.2.2  
Tischgehäuse und Stative

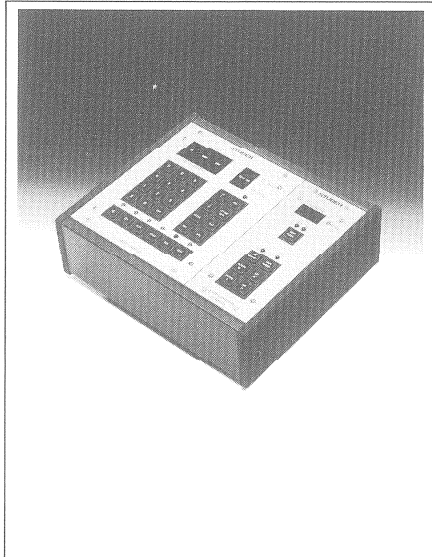


Fig. 1.2  
Tischgehäuse 1.328.095.00  
zur Aufnahme von max. 6 Studer Standard  
Modulen (nur für 8- und 16-Kanal  
Fernsteuerung geeignet).

Table cabinet 1.328.095.00  
to accommodate up to 6 Studer stand-  
ard modules (for 8- and 16-channel  
remote control only).

1.2.2  
Table cabinet and stands

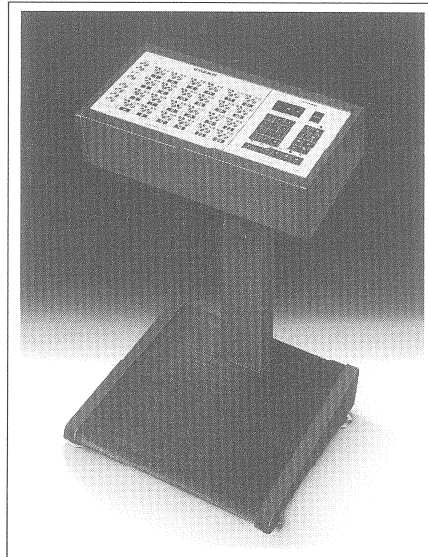


Fig. 1.3  
Bedienungsstativ 1.328.080.00  
Schmale Version zur Aufnahme von max.  
11 Studer Standard Modulen.

Stand 1.328.080.00  
Small version to accomodate up to  
11 Studer standard modules.

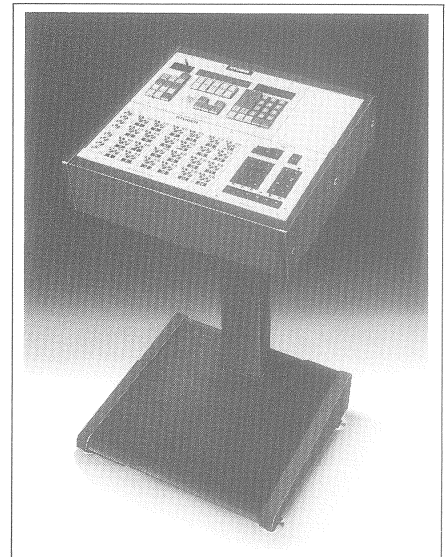


Fig. 1.4  
Bedienungsstativ 1.328.090.00  
Hohe Version zur Aufnahme von max.  
2 x 11 Studer Standard Modulen.

Stand 1.328.090.00  
Tall version to accommodate up to  
2 x 11 Studer standard modules.

1.2.3  
Abmessungen

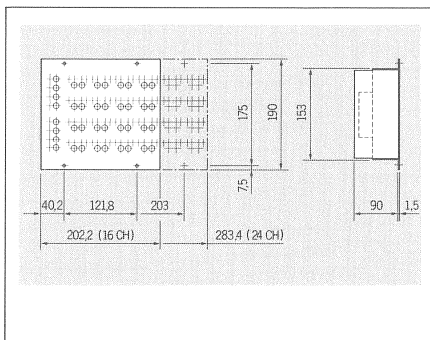


Fig. 1.5  
Bedienungseinheit  
Control unit

1.2.3  
Dimensions

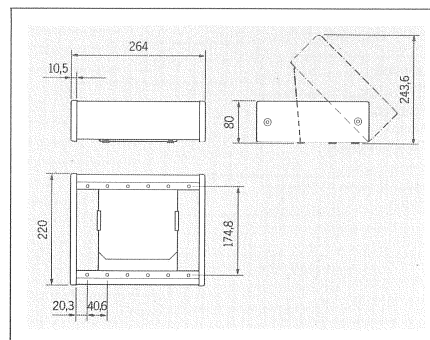


Fig. 1.6  
Tischgehäuse  
Table cabinet

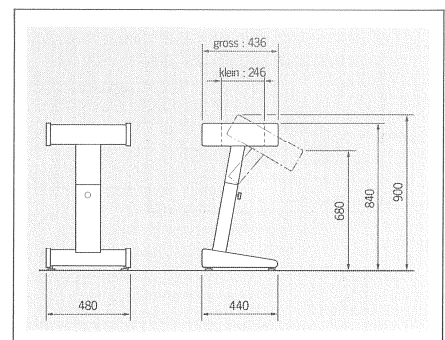


Fig. 1.7  
Stative  
Stands

Alle Studer Fernbedienungen sind modular aufgebaut. Die schmalste Steuereinheit besteht aus einem "Studer Standard Modul" mit festgelegten Frontplattenabmessungen. Die Breite einer grösseren Frontplatte ist immer ein ganzzahliges Vielfaches von der Breite eines Standard Moduls, hingegen bleibt die Frontplattenhöhe konstant. Frontplattenabmessungen sind durch die Anzahl Studer Module genau definiert.

Abmessungen eines Studer Standard Moduls:

Höhe : 190mm  
Breite : 40.6mm

#### Blind-Panels

Blind-Panels dienen zur Abdeckung von Leerstellen in nicht vollständig besetzten Fernsteuerungsstativen:

Grösse: 1 Modul 1.038.341.00  
2 Module 1.038.342.00  
3 Module 1.038.343.00

Frontplattenabmessungen der wichtigsten Studer Fernsteuerungen in Modulen

Autolocator	4 Module
Varispeed	2 Module
8 Kanal Audio	3 Module
16 Kanal Audio	5 Module
24 Kanal Audio	7 Module
TLS Programmer	8 Module
Code Kanal	1 Modul

All Studer remote control units are for modular mounting. The smallest unit consists of one "Studer standard module" with a front panel of defined dimensions. The width of longer front panels is therefore always a whole number multiple of the width of a standard module, whereas the panel height remains constant. Front panel dimensions are precisely defined by the number of standard modules.

Dimensions of one Studer standard module:

Height : 190mm  
Width : 40.6mm

#### Filler panels

The filler panels are used to cover blanks in not completely occupied remote control stands:

Size: 1 module 1.038.341.00  
2 modules 1.038.342.00  
3 modules 1.038.343.00

Size of the most important remote control units in modules

Autolocator	4 modules
Varispeed	2 modules
8 channel audio	3 modules
16 channel audio	5 modules
24 channel audio	7 modules
TLS Programmer	8 modules
Code channel	1 module

2. INBETRIEBNAHME UND BEDIENUNG

2. START-UP AND OPERATING INSTRUCTIONS

2.1 Inbetriebnahme

Die Audiofernsteuerung für die A80VU besteht aus folgenden Komponenten:

2.1 Start-up

The audio remote control for A80VU consists of the following components:

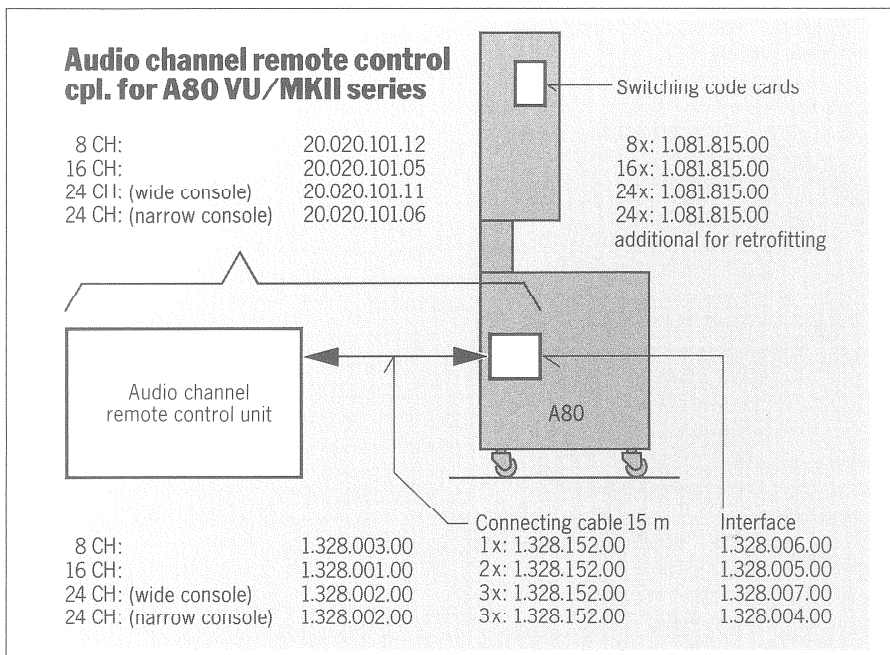


Fig. 2.1



Vorgehen für die Inbetriebnahme

- a) Maschinen, die mit dem Switching Code PCB 1.081.815 ausgerüstet sind:
- A80 ausschalten.
  - Rückwand abklappen.
  - Interface mit den beiliegenden Winkeln und Schrauben an der Rückseite der A80 montieren.

Start-up procedure

- a) Recorders, that are already equipped with Switching code PCB 1.081.815:
- Switch off the A80.
  - Lower the back panel.
  - Fix the interface at the rear of the machine by means of the enclosed brackets and screws.

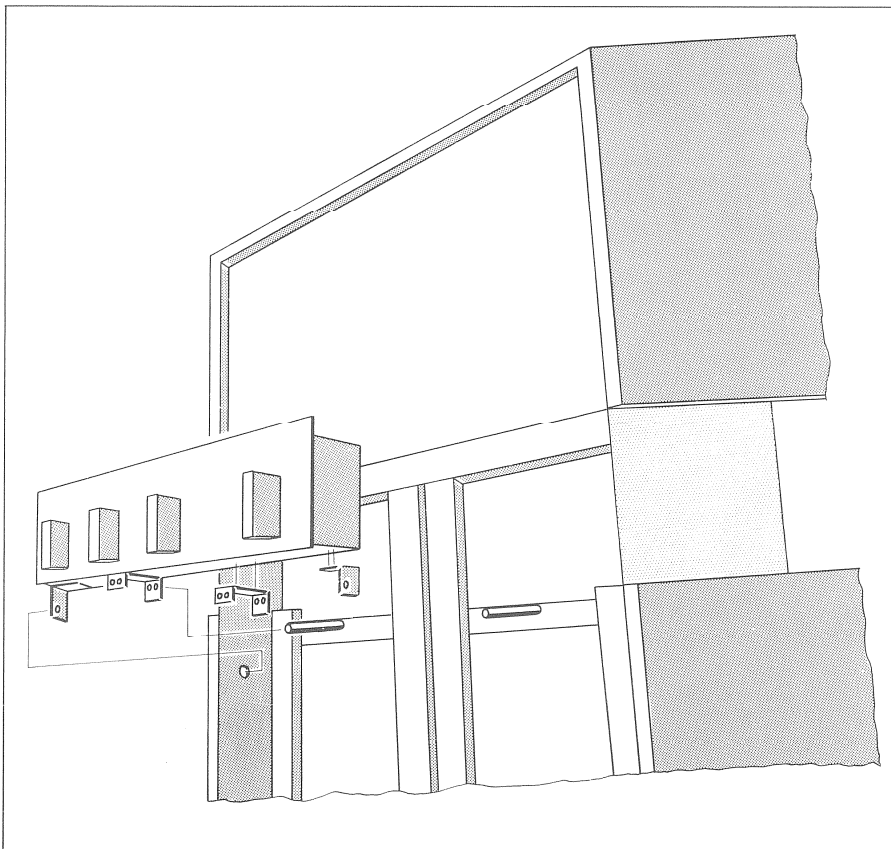


Fig. 2.2

- Rückwand hochklappen.
- Interfacekabel in die Buchse REMOTE MODE CONTROL der A80 einstecken.
- Die Audiokanalkabel aus dem Interface mit der Buchse REMOTE CONTROL der entsprechenden Kanäle verbinden.
- Die Fernbedienungseinheit mit dem Interface verbinden (1 Kabel/8 Kanäle).
- A80 einschalten.

- Tilt the back panel and fix it.
- Plug the interface cable into the REMOTE MODE CONTROL socket of the recorder.
- Connect the audio cables of the interface with the corresponding audio channels.
- Connect the audio remote control unit with the interface (1 cable per 8 audio channels)
- Switch on the recorder.

- Bei den gewünschten Kanälen den Betriebsartenschalter auf Position REM (Remote) stellen.
  - Jetzt ist die Fernbedienung betriebsbereit.
  - b) Maschinen, die nicht mit dem Switching Code PCB 1.081.815 ausgerüstet sind:
- Diese Maschinen müssen mit dem Switching Code PCB 1.081.815 nachgerüstet werden, bevor die unter a) aufgeführten Schritte durchgeführt werden (1 Switching Code PCB 1.081.815 pro Audiokanal). Technische Hinweise siehe Kapitel 3 Schema 1.081.815!
- Set the mode selectors of the required audio channels to the REM (remote) position.
  - Now your system is ready for operation.
  - b) Recorders, that are not yet equipped with switching code PCB 1.081.815:
- These recorders must be equipped with the switching code PCB 1.081.815 before the steps listed under a) are performed (1 switching code PCB per audio channel). For technical information see section 3 schematic 1.081.815!

## 2.2 Bedienung

## 2.2 Operating instructions

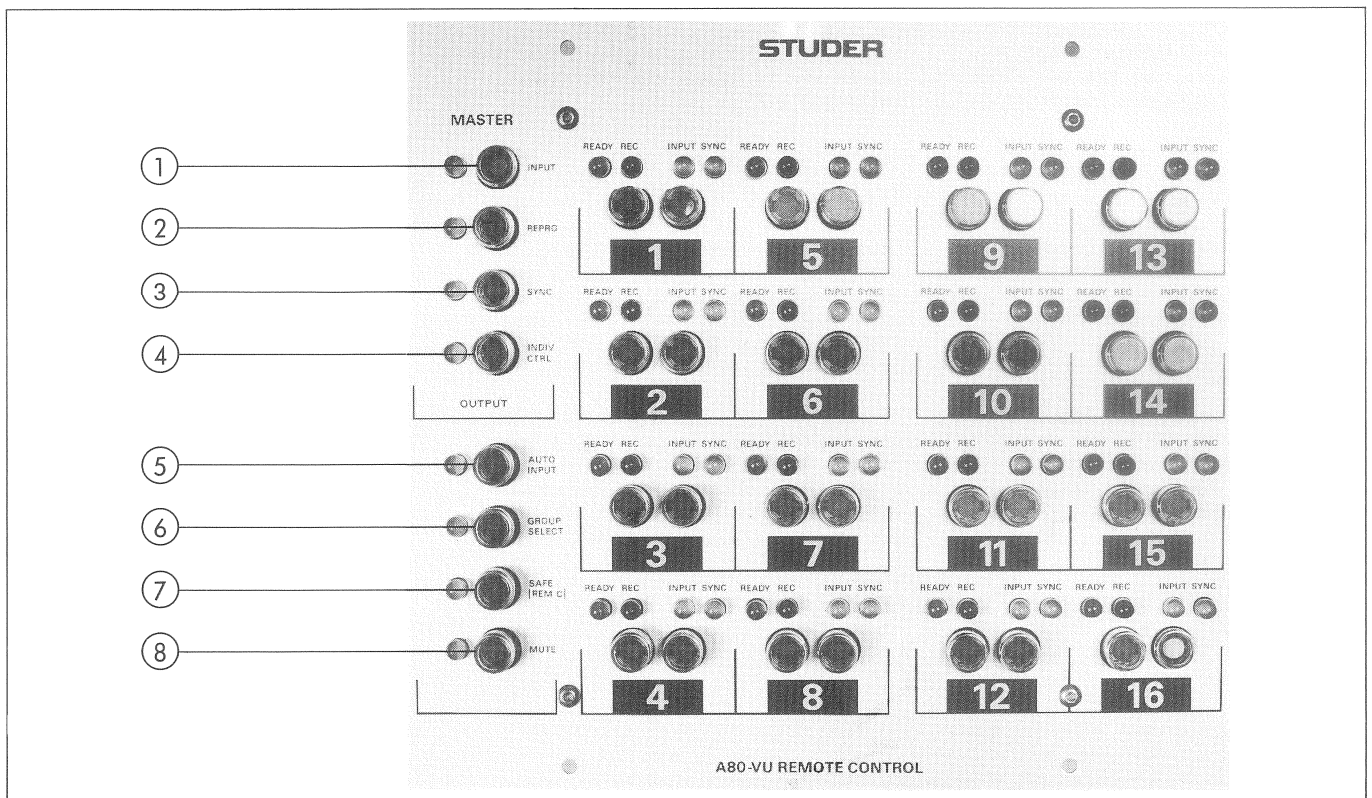


Fig. 2.3

Das Bedienungsfeld ist in 2 Bereiche gegliedert:

- Mastertastenfeld
- Kanaltastenfeld

The control panel is subdivided in 2 fields:

- Master control field
- Channel control field

### 2.2.1 Mastertasten (beeinflussen den Ausgang Repro)

#### [1] INPUT

An allen Repro-Ausgängen liegt das Eingangssignal an.

#### [2] REPRO

An allen Repro-Ausgängen liegt das Wiedergabesignal an.

#### [3] SYNC

An allen Repro-Ausgängen liegt das Syncsignal an,  
Ausnahme: Im Record-Modus liegt das Eingangssignal an den Ausgängen an.

#### [4] INDIV CTRL

An allen Repro-Ausgängen liegt dasjenige Signal an, das mit den einzelnen Kanaltasten (siehe Abschnitt 2.2.2) gewählt wurde.

#### [5] AUTO INPUT

Diese Taste bewirkt die Umschaltung aller Kanäle in Sync auf Input, sobald Sync nicht möglich ist (Stop, Umspulen oder Edit bei abgehobenem Band).

Auf Wunsch kann auf dem Remote Electronic Board 1.328.008.81 ein Jumper umgesteckt werden, dann gilt die Auto Input Funktion nur für Kanäle, die in Sync und Ready stehen.

### 2.2.1 Master controls (influence the repro output only)

#### [1] INPUT

The input signal is applied to all repro outputs.

#### [2] REPRO

The repro signal is applied to all repro outputs.

#### [3] SYNC

The sync signal is applied to all repro outputs.  
Exception: In record mode the input signal is applied to the outputs.

#### [4] INDIV CTRL

Enables individual control of sync/inp changeover for every channel (see section 2.2.2).

#### [5] AUTO INPUT

Causes all selected sync channels to switch automatically to input signal the moment sync is not possible, e.g. when tape stops, on fast wind (tape lifted) or when tape lifts off heads in edit mode.

If required, the auto input function can be programmed by means of a jumper on the remote electronic board 1.328.008.81 so that only the channels in sync and ready mode switch to input when sync function is not possible.

[6] GROUP SELECT

Wenn diese Taste während einer Aufnahme gedrückt wird, können Kanäle, die nicht in Aufnahme sind vorge- wählt werden, indem ihre Ready-Tasten gedrückt werden. Wenn die GROUP SELECT Taste ausgerastet wird, oder die Lauf- werktasten PLAY und REC ein zweites Mal betätigt werden, gehen die vor- gewählten Kanäle gemeinsam in Aufnahme:

[6] GROUP SELECT

If this button is depressed during record function, a group of channels can be preselected with the aid of their ready buttons; pressing the GROUP SELECT button a second time or the tape deck keys PLAY and REC will cause the preselected channels to switch to record mode simultaneously.

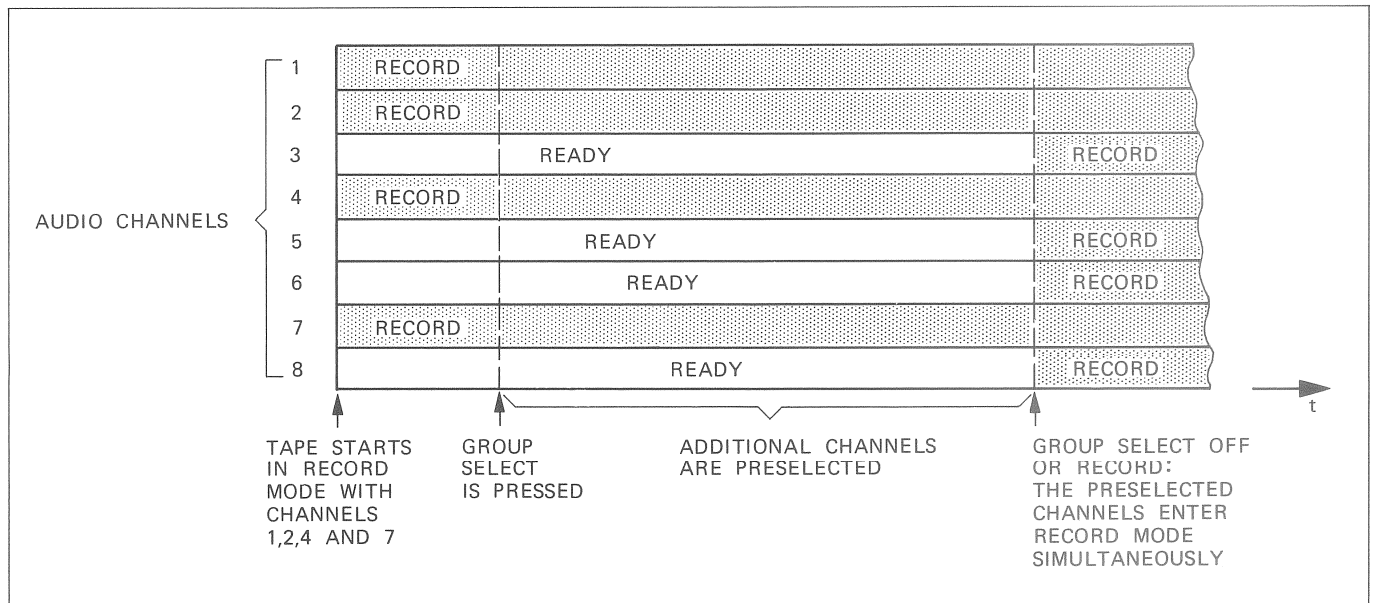


Fig. 2.4

[7] SAFE (REM C)

Wenn diese Taste gedrückt wird, ist die Record Funktion für alle Kanäle, deren Betriebsartenschalter auf REM stehen, gesperrt.

[7] SAFE (REM C)

Disables record function for the channels with their mode selector set to REM position.

[8] MUTE

Stummschaltfunktion für den Betrieb mit dem TLS2000.

[8] MUTE

Muting function for use with TLS2000.

### 2.2.2 Kanaltasten

### 2.2.2 Channel controls

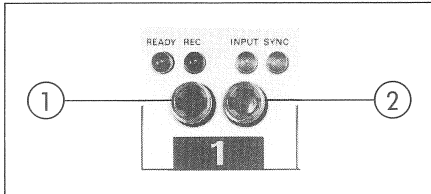


Fig. 2.5

#### [1] READY/SAFE

Wenn diese Taste gedrückt wird, ist eine Aufnahme auf den betreffenden Kanal möglich, wird angezeigt durch die grüne READY LED. Bei ausgerasteter Taste ist die Aufnahme gesperrt.

#### [1] READY/SAFE

With this button depressed recording on the corresponding channel is enabled, indicated by the green READY LED. When this button is released, recording is disabled.

#### [2] INPUT/SYNC

Wenn die Mastertaste INDIV CTRL [4] gedrückt ist, kann mit der INPUT/SYNC Taste der Repro-Ausgang auf Input oder Sync geschaltet werden, die gewählte Funktion wird durch die entsprechende LED oberhalb der Taste angezeigt.

#### [2] INPUT/SYNC

If the master control INDIV CTRL [4] is depressed, the repro output can be switched from sync to input and vice versa with the aid of the INPUT/SYNC button, the state is indicated by the corresponding LED above the button.

AUDIO REMOTE CONTROL TRUTH TABLE

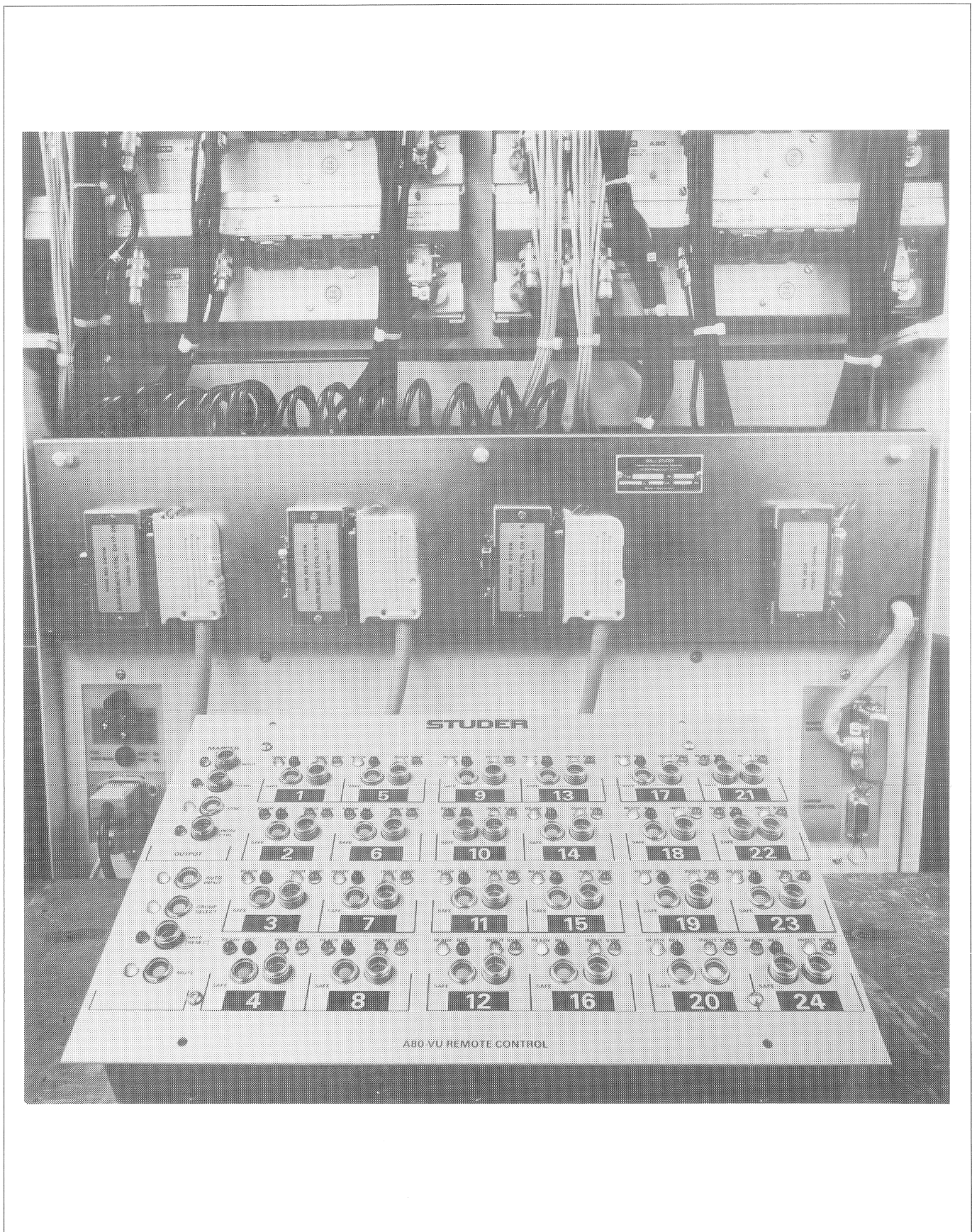
MASTER OUTPUT BUTTONS	★ AUTO INPUT	SAFE (REM C)	CHANNEL CONTROLS		TAPE DECK STATUS	OUTPUT SIGNALS	
			READY/SAFE	SYNC/INPUT		REPRO OUTPUT	SYNC OUTPUT
INPUT			READY READY SAFE	X X X	PLAY, STOP, WIND RECORD X	INPUT INPUT INPUT	SYNC INPUT SYNC
REPRO	● ● ● ● ●	●	READY READY SAFE READY SAFE X X X X	X X X X X X X X	PLAY, STOP, WIND RECORD X RECORD RECORD PLAY, EDIT+MOVE MUTE, WIND, STOP, EDIT WIND+EDIT X	REPRO REPRO REPRO REPRO REPRO REPRO REPRO REPRO	SYNC INPUT SYNC INPUT SYNC SYNC SYNC SYNC
SYNC	● ● ● ● ●	●	READY READY SAFE READY SAFE X X X X	X X X X X X X X	PLAY, STOP, WIND RECORD X RECORD RECORD PLAY, EDIT+MOVE, EDIT (MUTE), WIND, STOP WIND+EDIT X	SYNC INPUT SYNC INPUT SYNC SYNC INPUT SYNC SYNC	SYNC INPUT SYNC INPUT SYNC SYNC SYNC SYNC
INDIV CTRL	● ● ● ● ● ● ● ●		READY SAFE READY SAFE X X READY SAFE READY SAFE X X X	INPUT INPUT SYNC SYNC INPUT SYNC INPUT INPUT SYNC SYNC INPUT SYNC INPUT SYNC	RECORD RECORD RECORD RECORD PLAY, STOP, WIND PLAY, STOP, WIND RECORD RECORD RECORD RECORD PLAY, STOP, WIND PLAY, WIND+EDIT MUTE, STOP, WIND, EDIT	INPUT INPUT INPUT SYNC INPUT SYNC INPUT INPUT INPUT SYNC INPUT SYNC INPUT INPUT	INPUT SYNC INPUT SYNC SYNC INPUT SYNC INPUT SYNC SYNC SYNC SYNC SYNC

● = BUTTON DEPRESSED    X = DON'T CARE    ★ JUMPER ON PCB 1.328.008.81 IN POSITION 'NORMAL'

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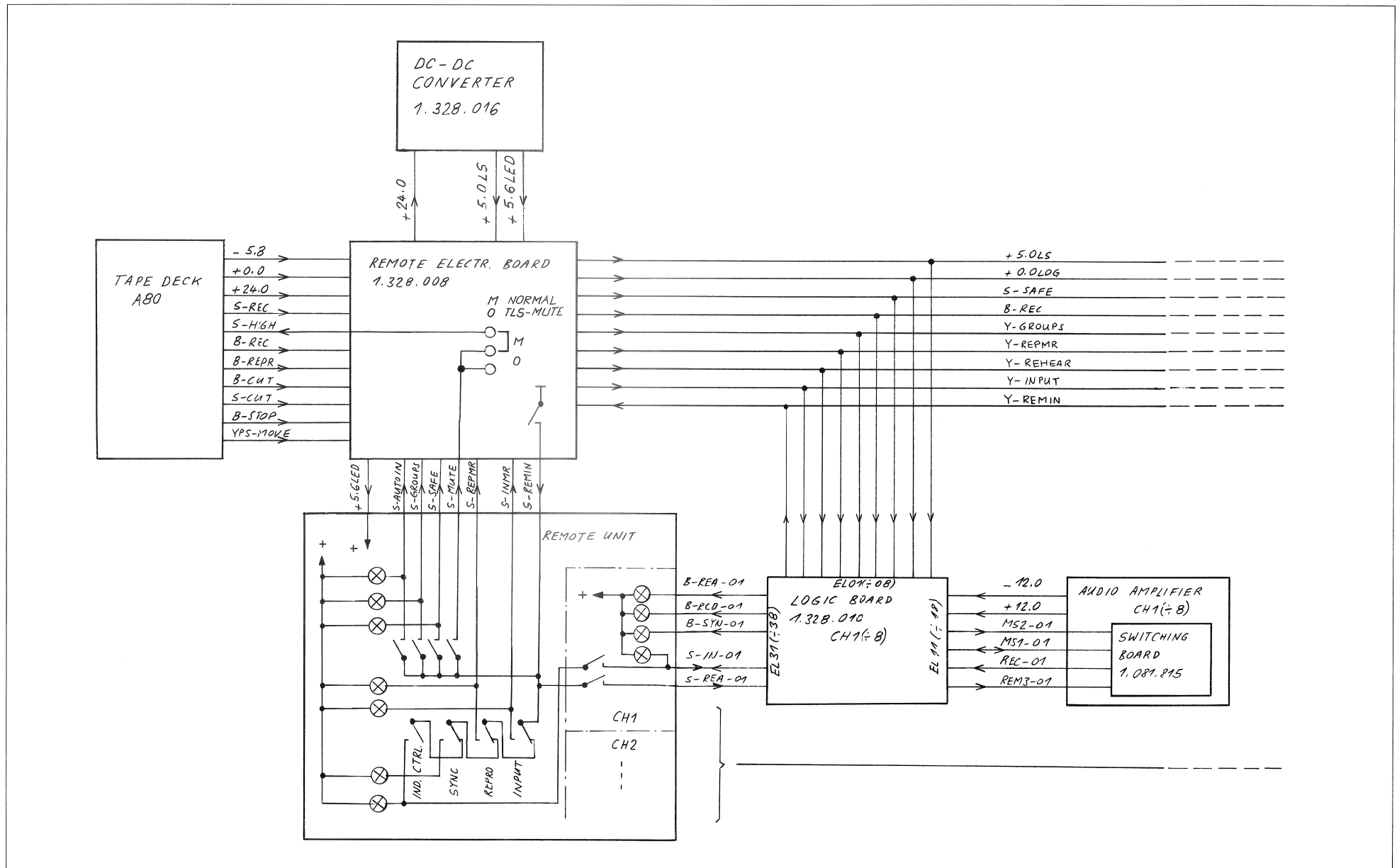
DESCRIPTION	SCHEMATIC NO.	SECTION/PAGE
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SURVEY OF AUDIO REMOTE CONTROL WIRING

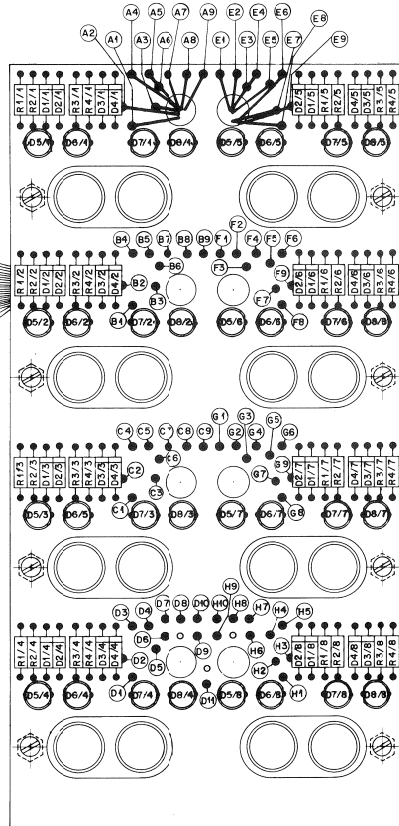
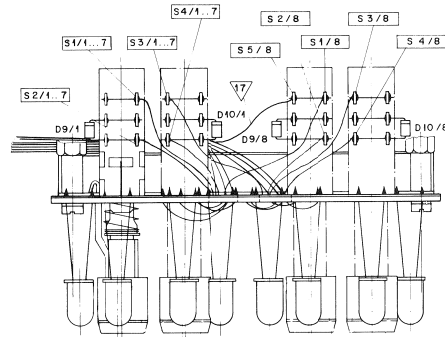




AUDIO REMOTE CONTROL BLOCKDIAGRAM



AUDIO REMOTE CONTROL UNIT 16/24CH 1.328.001/002 GR44 (REMOTE CONTROL PCB 1.328.106)



INTERFACE CONNECTOR

54.02.1105

- SEE TABLE 1
- SEE TABLE 2
- ▽ SEE TABLE 3+4

TABLE 1 (PCB → CONNECTOR)

FROM CONNECTOR 54.02.1105	TO PCB 1.328.106
1	A 7
2	B 7
3	C 7
4	D 7
5	E 3
6	F 3
7	G 3
8	H 6
9	-
10	-
11	-
12	-
13	-
14	-
15	-
16	-
17	A 5
18	B 5
19	C 5
20	D 4
21	E 7
22	F 7
23	G 7
24	H 2
25	A 1
26	B 1
27	C 1
28	D 1
29	E 5
30	F 5
31	G 5
32	H 4
33	A 2
34	B 2
35	C 2
36	D 2
37	E 6
38	F 6
39	G 6
40	H 5
41	A 3
42	B 3
43	C 3
44	D 5
45	E 8
46	F 8
47	G 8
48	H 1
49	-
50	-
51	-
52	-
53	-
54	D11
55	-

TABLE 2 (SWITCHES → PCB)

FROM SWITCHES (SHADOW)	TO PCB 1.328.106
S 1/1 blk	A 8
S 2/1 brn	A 6
S 3/1 blk	E 2
S 4/1 org	A 4
S 1/2 blk	B 8
S 2/2 brn	B 6
S 3/2 blk	F 2
S 4/2 org	B 4
S 1/3 blk	C 8
S 2/3 brn	C 6
S 3/3 blk	G 2
S 4/3 org	C 4
S 1/4 blk	D 8
S 2/4 brn	D 6
S 3/4 blk	H 8
S 4/4 org	D 3
S 1/5 blk	A 9
S 2/5 brn	E 4
S 3/5 blk	E 1
S 4/5 org	E 9
S 1/6 blk	B 9
S 2/6 brn	F 4
S 3/6 blk	F 1
S 4/6 org	F 9
S 1/7 blk	C 9
S 2/7 brn	G 4
S 3/7 blk	G 1
S 4/7 org	G 9
S 1/8 blk	D10
S 2/8 brn	H 7
S 3/8 blk	H10
S 4/8 org	H 3

TABLE 3

FROM POS.	TO PCB 1.328.106
14	D 9
16	H 9

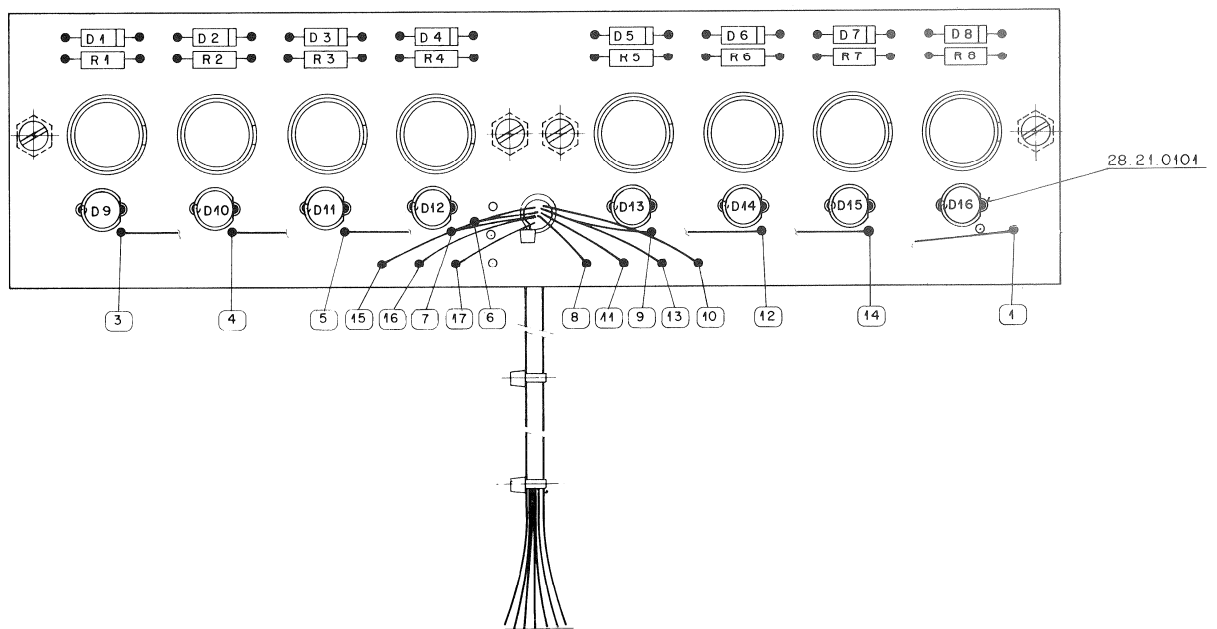
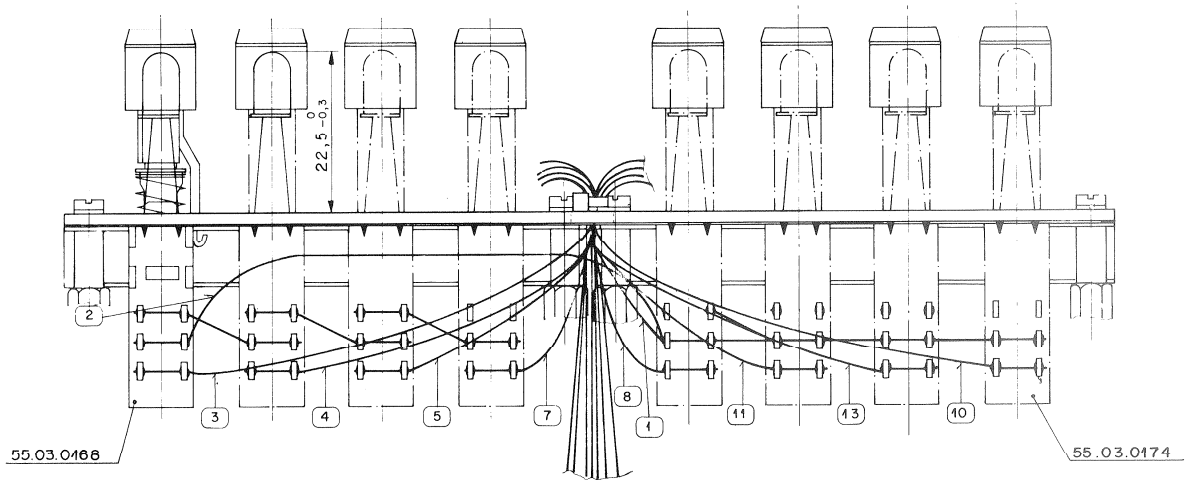
TABLE 4 (SWITCHES → CONNECTOR)

SWITCHES	CONNECTOR	POS.
S 5/8	56	17

IND	POS NO	PART NO	VALUE	SPECIFICATIONS/EQUIVALENT	MFR
D1/1	8	50.04.0125	1N4448	S:	
D2/1	8				
D3/1	8				
D4/1	8				
D5/1	8	50.04.2113	MY 5353	LED green	MS
D6/1	8	50.04.2111	MY 5353	LED red	MS
D7/1	8	50.04.2112	MY 5353	LED yellow	MS
D8/1	8	50.04.2112	MY 5353	LED yellow	MS
D9/1	8	50.04.0125	1N4448	S:	
D10/1	8	50.04.0125	1N4448	S:	
R1/1	8	57.02.5220	22 Ω	10%	
R2/1	8	57.02.5820	82 Ω	10%	
R3/1	8	57.02.5820	82 Ω	10%	
R4/1	8	57.02.5121	120 Ω	10%	

IND	DATE	NAME	MS - Manuscript
①			
②			
③			
④			
⑤	14.11.78	Schwab	
<b>STUDER</b> Remote Control Print			1.328.106 PAGE 1 OF 1

AUDIO REMOTE CONTROL UNIT 16/24CH 1.328.001/002 GR44 (MASTER PCB REMOTE CONTROL 1.328.017)



## AUDIO REMOTE CONTROL UNIT 16/24CH 1.328.001/002 GR44 (MASTER PCB REMOTE CONTROL 1.328.017)

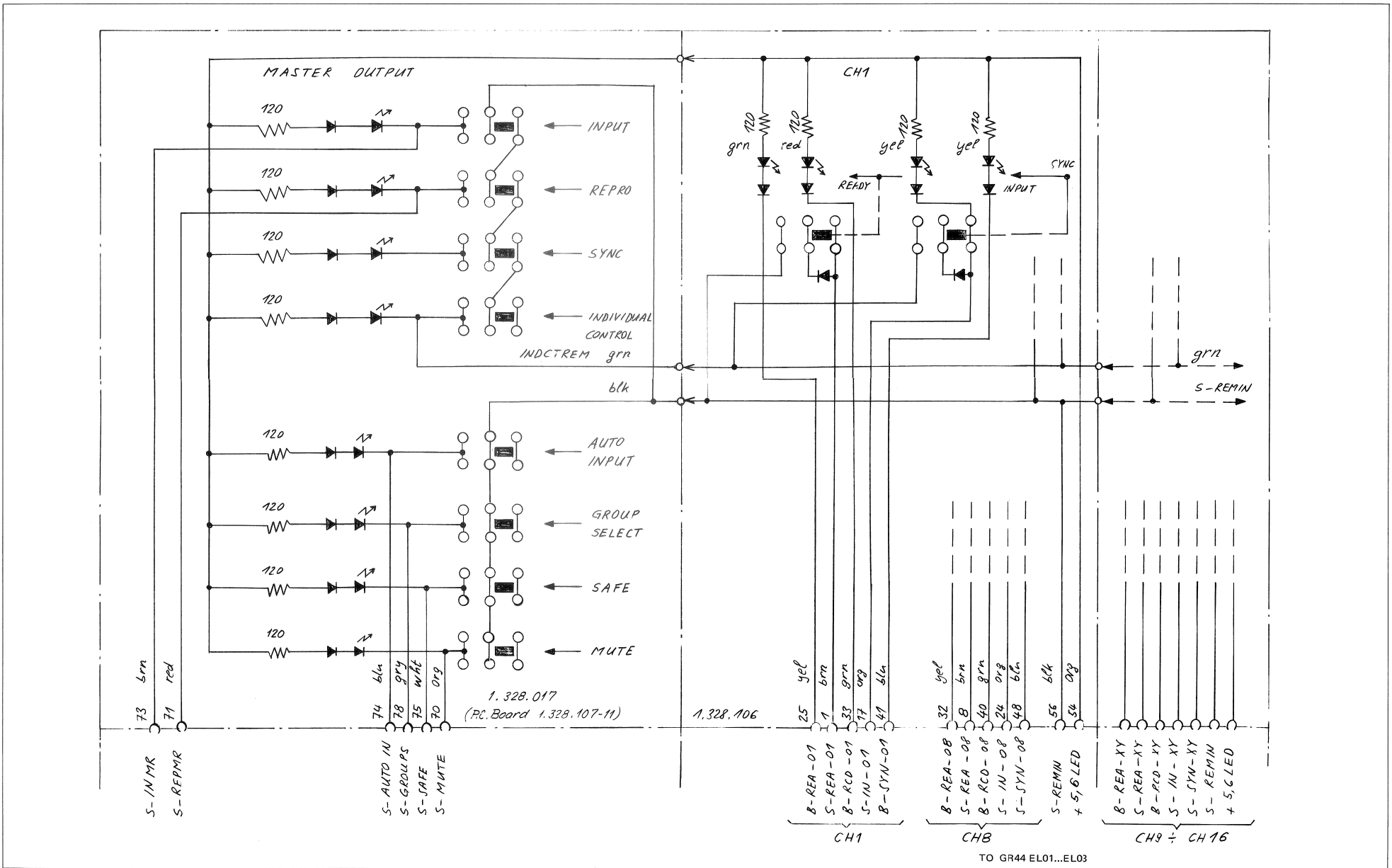
IND.	POS.-NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
D..0001	50.04.0125	1N4448			ITT,Ph,Ses,TI
D..0002	50.04.0125	1N4448			ITT,Ph,Ses,TI
D..0003	50.04.0125	1N4448			ITT,Ph,Ses,TI
D..0004	50.04.0125	1N4448			ITT,Ph,Ses,TI
D..0005	50.04.0125	1N4448			ITT,Ph,Ses,TI
D..0006	50.04.0125	1N4448			ITT,Ph,Ses,TI
D..0007	50.04.0125	1N4448			ITT,Ph,Ses,TI
D..0008	50.04.0125	1N4448			ITT,Ph,Ses,TI
D..0009	50.04.2112	MV5353	CM4-584B, 5082-4552		CM,HP,Ms
D..0010	50.04.2112	MV5353	CM4-584B, 5082-4552		CM,HP,Ms
D..0011	50.04.2112	MV5353	CM4-584B, 5082-4552		CM,HP,Ms
D..0012	50.04.2112	MV5353	CM4-584B, 5082-4552		CM,HP,Ms
D..0013	50.04.2112	MV5353	CM4-584B, 5082-4552		CM,HP,Ms
D..0014	50.04.2112	MV5353	CM4-584B, 5082-4552		CM,HP,Ms
D..0015	50.04.2112	MV5353	CM4-584B, 5082-4552		CM,HP,Ms
D..0016	50.04.2112	MV5353	CM4-584B, 5082-4552		CM,HP,Ms
R..0001	57.41.4121	120 Ohm	5%		
R..0002	57.41.4121	120 Ohm	5%		
R..0003	57.41.4121	120 Ohm	5%		
R..0004	57.41.4121	120 Ohm	5%		
R..0005	57.41.4121	120 Ohm	5%		
R..0006	57.41.4121	120 Ohm	5%		
R..0007	57.41.4121	120 Ohm	5%		
R..0008	57.41.4121	120 Ohm	5%		
SZ..0001	55.03.0168	4 Switches	Schadow/ITT Nr. 4 x F 15 2U Gr		
SZ..0002	55.03.0174	4 Switches	Schadow/ITT Nr. 4 x F 15 2U EE		

MANUFACTURER: CM=Chicago Miniatur, HP=Hewlett Packard,  
 IT=Intermetall, Ms=Monsanto, Ph=Philips,  
 Ses=Sescosem, TI=Texas Instruments

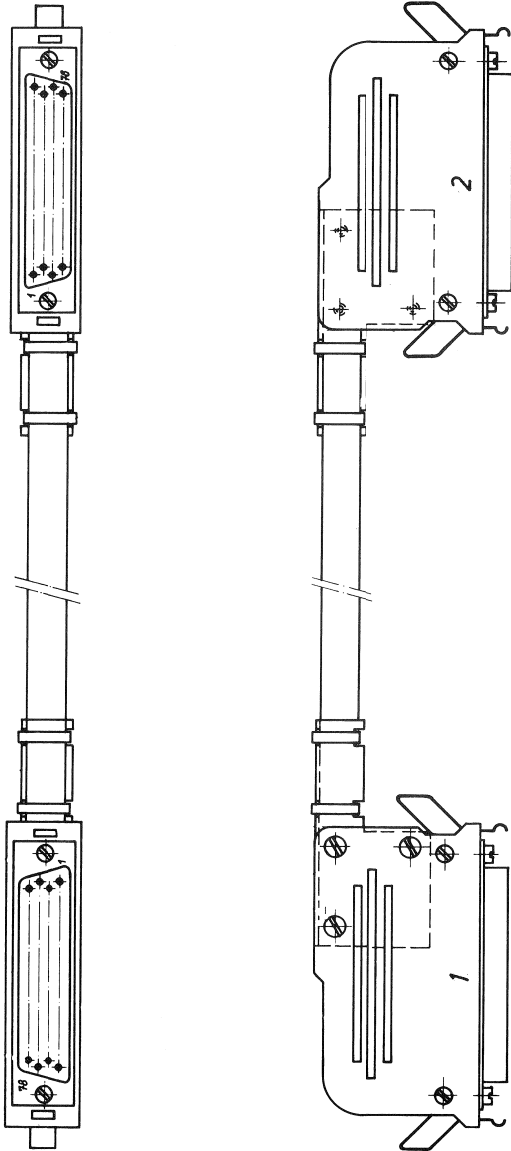
GRIG 82/08/19

S T U D E R 02/00/20 PD MASTERBOARD REM. CONTR. A80 VU 1.328.017.00 PAGE 1

AUDIO REMOTE CONTROL UNIT 16/24CH 1.328.001/002 GR44



AUDIO REMOTE CONTROL CABLE (15m) 1.328.152



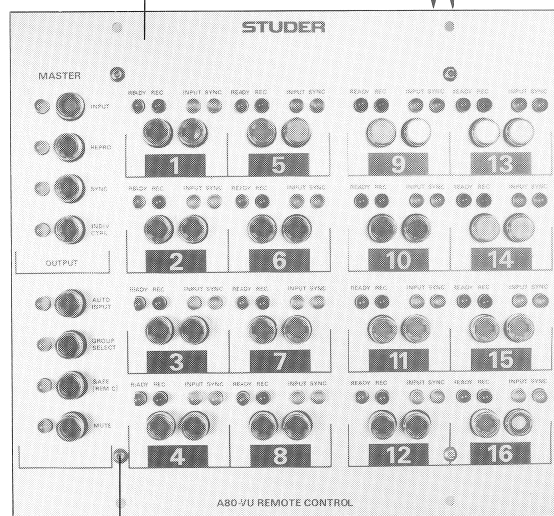
COLOR	SIGNAL	CONNECTOR 78 FOL 54.02.1112	
wht	S-REA-01	1	1
brn	S-REA-02	2	2
grn	S-REA-03	3	3
vio	S-REA-04	4	4
gry/pnk	S-REA-05	5	5
blu/red	S-REA-06	6	6
wht/grn	S-REA-07	7	7
brn/grn	S-REA-08	8	8
wht/yel	S-IN-01	17	17
yel/brn	S-IN-02	18	18
wht/gry	S-IN-03	19	19
gry/brn	S-IN-04	20	20
wht/pnk	S-IN-05	21	21
pnk/brn	S-IN-06	22	22
wht/blu	S-IN-07	23	23
brn/blu	S-IN-08	24	24
wht/red	B-REA-01	25	25
brn/red	B-REA-02	26	26
wht/blk	B-REA-03	27	27
brn/blk	B-REA-04	28	28
gry/grn	B-REA-05	29	29
yel/gry	B-REA-06	30	30
pnk/grn	B-REA-07	31	31
yel/pnk	B-REA-08	32	32
grn/blu	B-RCD-01	33	33
yel/blu	B-RCD-02	34	34
grn/red	B-RCD-03	35	35
yel/red	B-RCD-04	36	36
grn/blk	B-RCD-05	37	37
yel/blk	B-RCD-06	38	38
gry/blu	B-RCD-07	39	39
pnk/blu	B-RCD-08	40	40
gry/red	B-SYN-01	41	41
pnk/red	B-SYN-02	42	42
gry/blk	B-SYN-03	43	43
pnk/blk	B-SYN-04	44	44
blu/blk	B-SYN-05	45	45
red/blk	B-SYN-06	46	46
wht/brn/blk	B-SYN-07	47	47
yel/grn/blk	B-SYN-08	48	48
yel	0.0 Dig.	53	53
red+blk	+5.0	54	54
pnk+blu	S-REMIN	56	56
gry	S-MUTE	70	70
gry/pnk/blk	S-REPM1 R	71	71
blu/red/blk	S-SYNM1 R	72	72
wht/grn/blk	S-INM1 R	73	73
grn/brn/blk	S-INM2 R	74	74
wht/yel/blk	S-SYNM2 R	75	75
yel/brn/blk	S-REPM2 R	78	78

AUDIO REMOTE CONTROL COMPONENTS

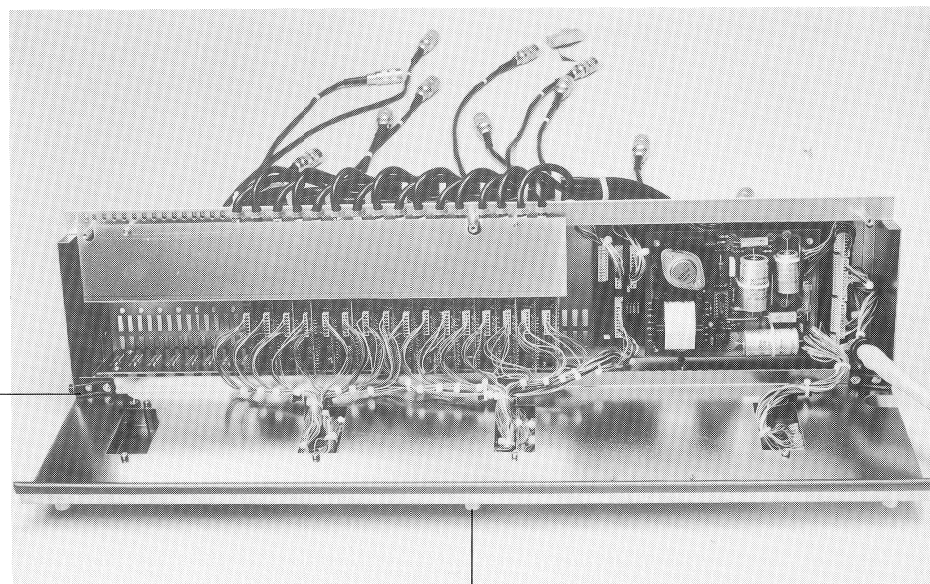
FRONTPANEL 8 CH 1.328.003.01  
 FRONTPANEL 16 CH 1.328.001.01  
 FRONTPANEL 24 CH 1.328.002.01

INTERFACE CONNECTOR

DOLBY CONNECTOR



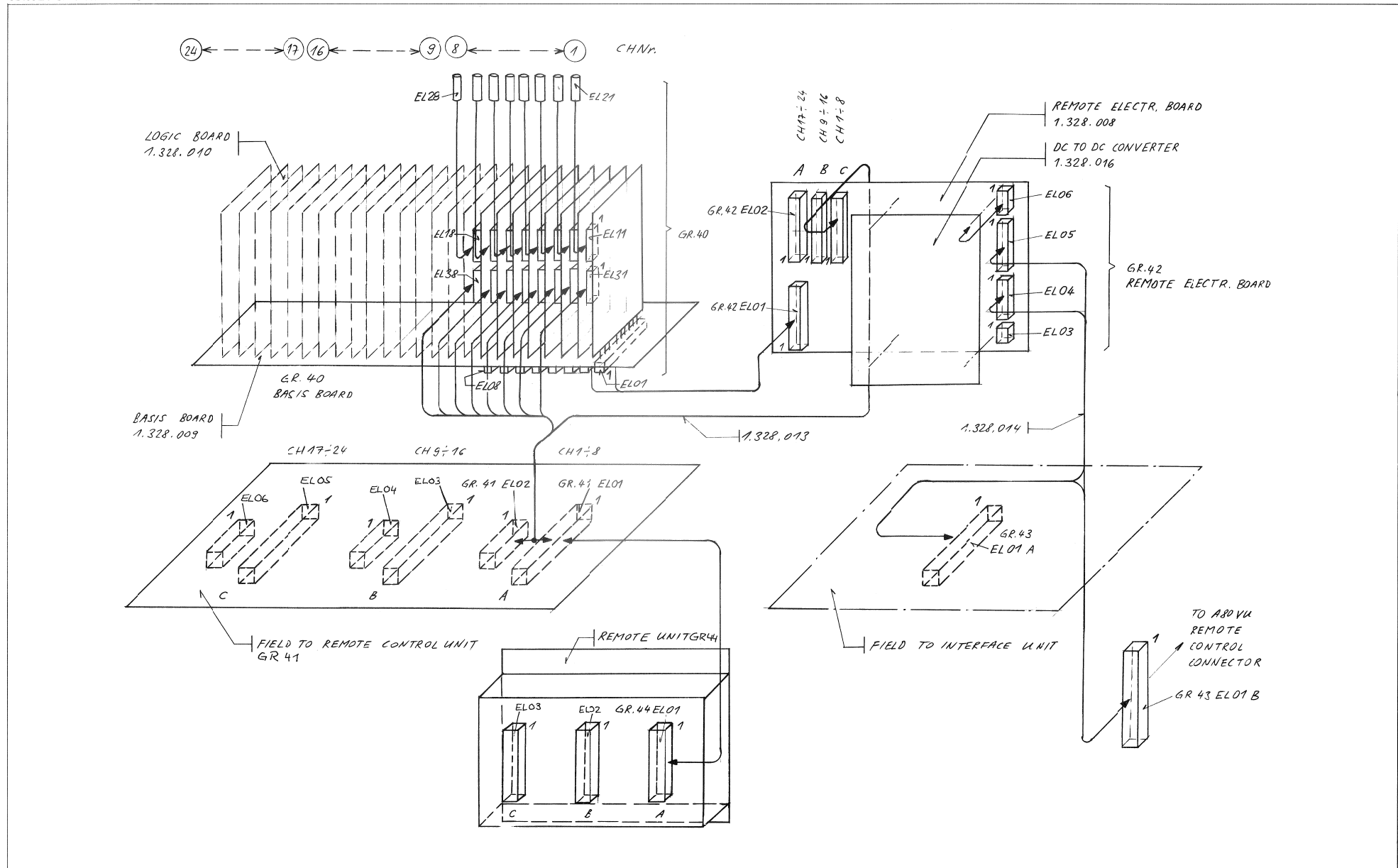
SCREW LS,IS M3 x 6 21.51.8354



JOINT 1.038.420.11

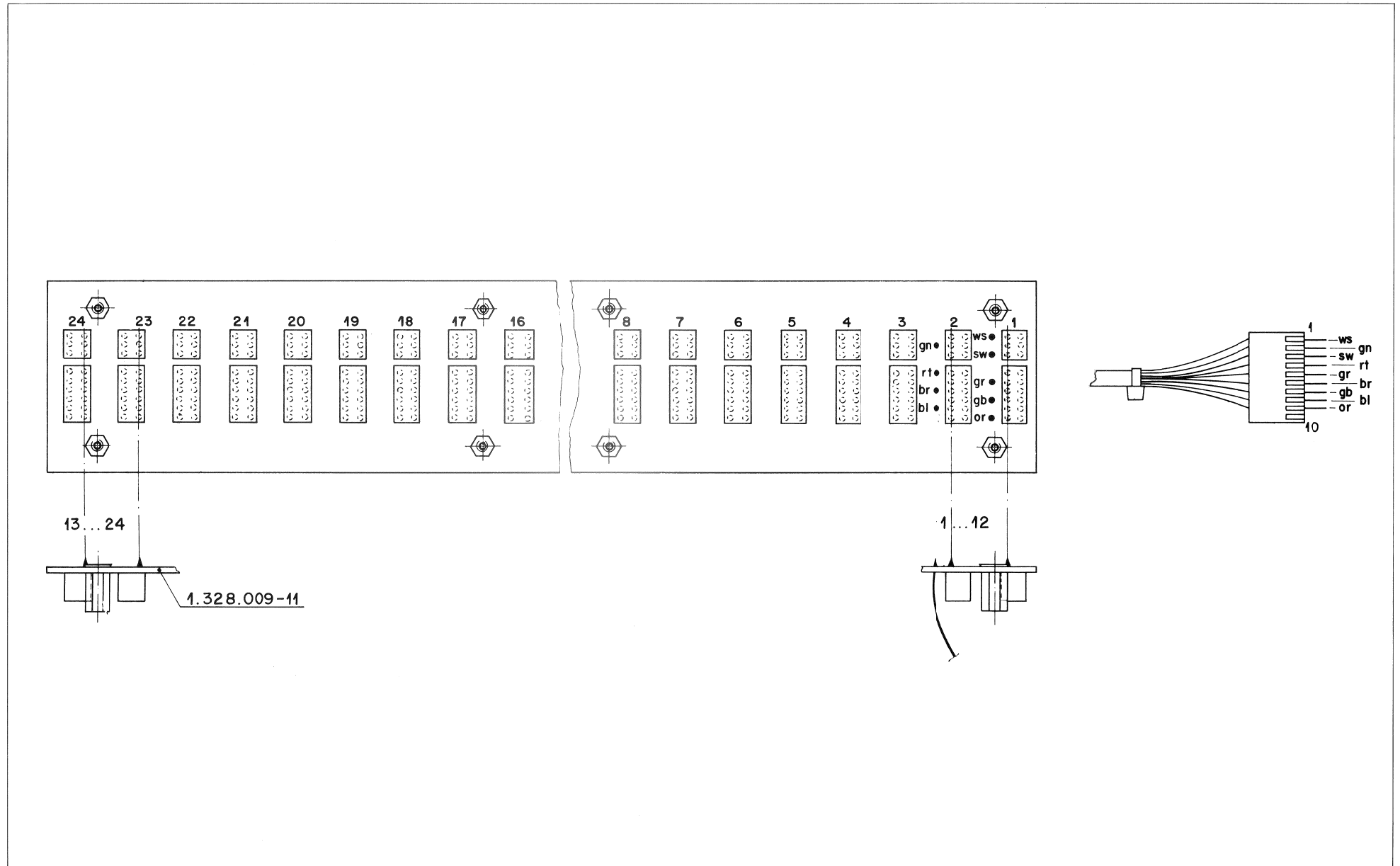
LOCK SCREW 1.228.132.00

SURVEY OF GROUP NUMBERS



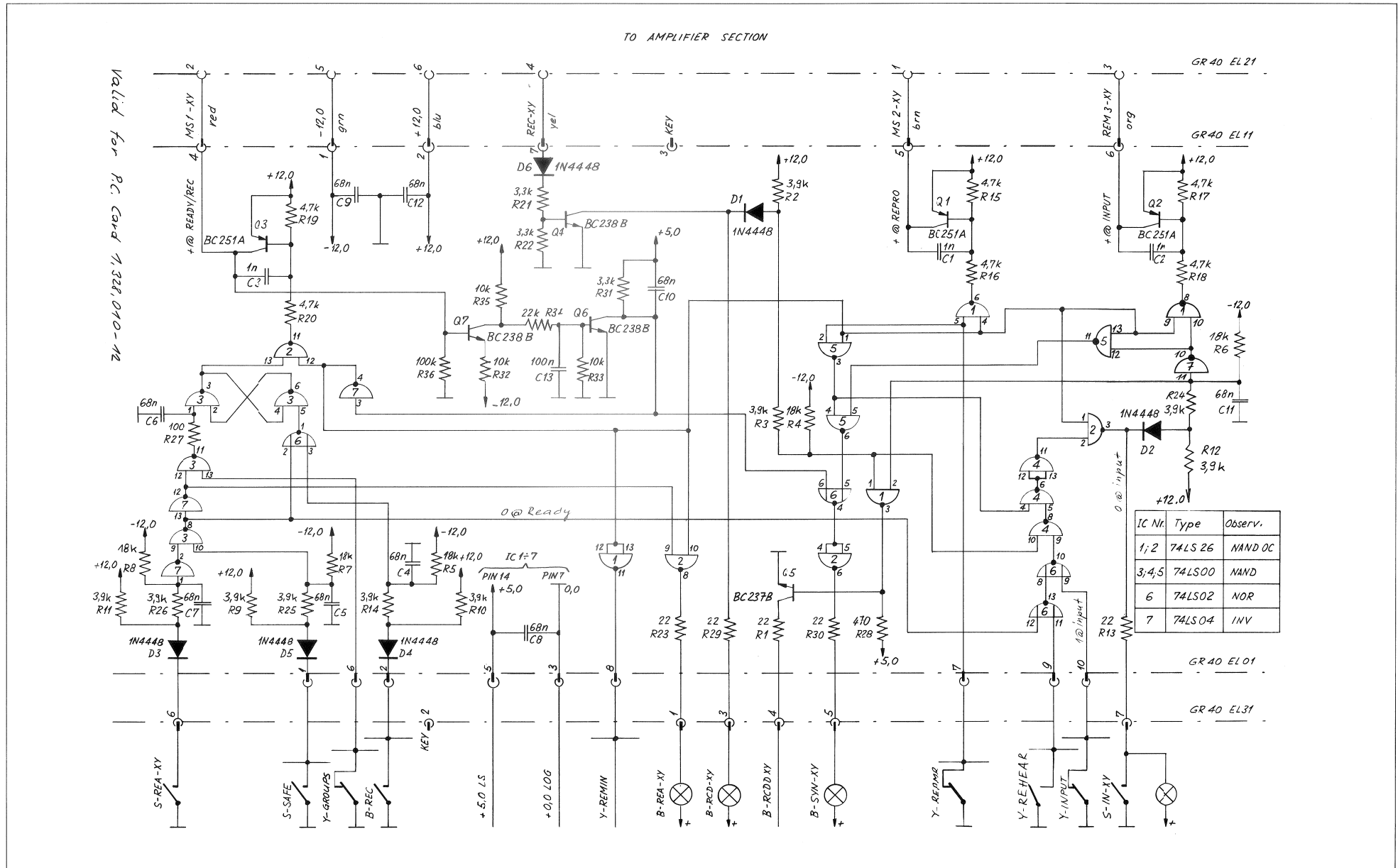


BASIS BOARD 1.328.009 GR40

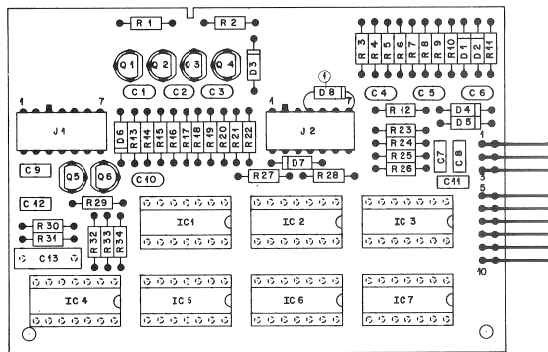




LOGIC PCB 1.328.010-81



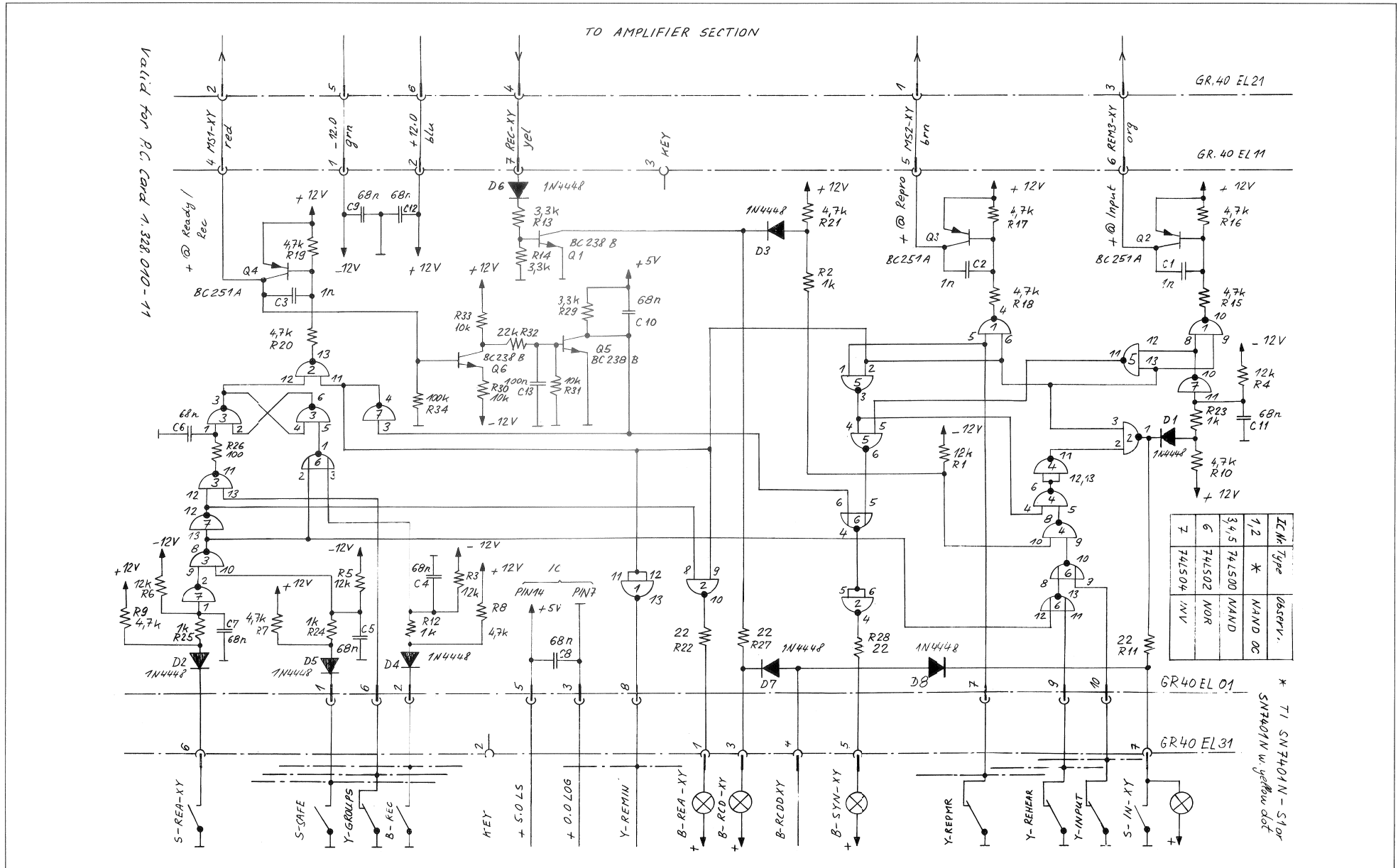
LOGIC PCB 1.328.010-00



POS NO	PART NO	VALUE	SPECIFICATIONS	EQUIVALENT	MFR
C 01	59.22.4602	100P			
C 02	59.22.4602	100P			
C 03	59.22.4602	100P			
C 04	59.99.0202	500P			
C 05	59.99.0202	500P			
C 06	59.99.0165	500P			
C 07	59.99.0165	500P			
C 08	59.99.0165	500P			
C 09	59.99.0165	500P			
C 10	59.99.0165	500P			
C 11	59.99.0165	500P			
C 12	59.99.0165	500P			
C 13	59.21.0104	500P			
D 01	50.04.0125	1N4648			
D 02	50.04.0125	1N4648			
D 03	50.04.0125	1N4648			
D 04	50.04.0125	1N4648			
D 05	50.04.0125	1N4648			
D 06	50.04.0125	1N4648			
D 07	50.04.0125	1N4648			
D 08	50.04.0125	1N4648			
IC 01	50.99.0121	5U7409M-21	5U7409M w. yellow dot		71.51
IC 02	50.99.0121	5U7409M-21	5U7409M w. yellow dot		71.51
IC 03	50.06.0000	5U741100M			71.51
IC 04	50.06.0000	5U741100M			71.51
IC 05	50.06.0000	5U741100M			71.51
IC 06	50.06.0000	5U741100M			71.51
IC 07	50.06.0004	5U741104M			71.51
R 01	50.02.0122	2C 222 B		2C 222 B	5.M.P
R 02	50.02.0177	2C 222 A		2C 222 A	5.M.P
R 03	50.02.0177	2C 222 A		2C 222 A	5.M.P
R 04	50.02.0177	2C 222 A		2C 222 A	5.M.P
R 05	50.02.0177	2C 222 B		2C 222 B	5.M.P
R 06	50.02.0122	2C 222 B		2C 222 B	5.M.P

POS NO	PART NO	VALUE	SPECIFICATIONS	EQUIVALENT	MFR
R 01	50.02.0122	2C 222 B			
R 02	50.02.0122	2C 222 B			
R 03	50.02.0122	2C 222 B			
R 04	50.02.0122	2C 222 B			
R 05	50.02.0122	2C 222 B			
R 06	50.02.0122	2C 222 B			
R 07	50.02.0122	2C 222 B			
R 08	50.02.0122	2C 222 B			
R 09	50.02.0122	2C 222 B			
R 10	50.02.0122	2C 222 B			
R 11	50.02.0122	2C 222 B			
R 12	50.02.0122	2C 222 B			
R 13	50.02.0122	2C 222 B			
R 14	50.02.0122	2C 222 B			
R 15	50.02.0122	2C 222 B			
R 16	50.02.0122	2C 222 B			
R 17	50.02.0122	2C 222 B			
R 18	50.02.0122	2C 222 B			
R 19	50.02.0122	2C 222 B			
R 20	50.02.0122	2C 222 B			
R 21	50.02.0122	2C 222 B			
R 22	50.02.0122	2C 222 B			
R 23	50.02.0122	2C 222 B			
R 24	50.02.0122	2C 222 B			
R 25	50.02.0122	2C 222 B			
R 26	50.02.0122	2C 222 B			
R 27	50.02.0122	2C 222 B			
R 28	50.02.0122	2C 222 B			
R 29	50.02.0122	2C 222 B			
R 30	50.02.0122	2C 222 B			
R 31	50.02.0122	2C 222 B			
R 32	50.02.0122	2C 222 B			
R 33	50.02.0122	2C 222 B			
R 34	50.02.0122	2C 222 B			

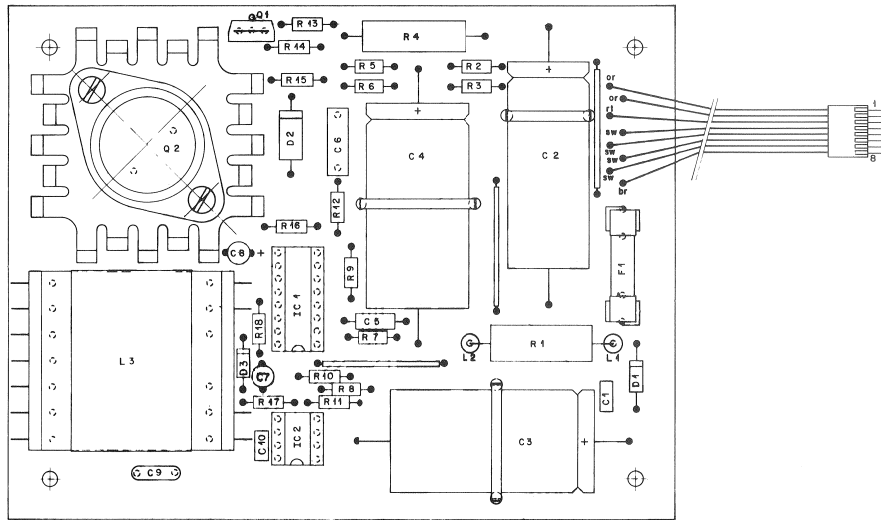
LOGIC PCB 1.328.010-00







DC-DC CONVERTER 24V TO 5V 1.328.016



POS NO	PART NO	VALUE	SPECIFICATIONS	EQUIVALENT MFR
C1	59.99.0105	68nF	35V	20%
C2	59.35.592	1000µF	40V	{
C3	59.05.522	220µF	35V	{
C4	59.26.0122	220µF	35V	20%
C5	59.08.732	33nF	10V	2,5%
C6	59.05.5104	100nF	40V	20%
C7	59.36.5100	10µF	35V	{
C8	59.36.5190	82µF	10V	{
C9	59.32.3904	100nF	35V	20%
C10	59.39.0105	48nF	35V	20%
D1	50.04.0122	1N4001		MITT
D2	50.04.0109	MA851		3.5F1
D3	50.04.0125	1N4448		M5m
F1	51.01.0148	F125AT	ø5x10 mm	
IC1	50.05.0279	503524-N	V. REG.	TJ56
IC2	50.05.0286	LM358-N	OP. AMP.	N
L1	61.89.0124		#3.5x3	ST
L2	61.89.0124		#3.5x3	ST
L3	1.022.410.00	700µH	Storage coil	ST
MP1	35.03.0143		3,6 x 137	ST
MP2	35.03.0143		3,6 x 137	ST
MP3	35.03.0143		3,6 x 137	ST
Q1	50.03.0165	8D518-S	PHP	M
Q2	50.03.0454	243792	PHP	2N5B76 M7I
R1	57.56.5198	0,1Ω	10%, 4W	
R2	57.11.4152	1,5kΩ	5%, 0,25W	
R3	57.11.4151	430Ω	5%, 0,25W	
R4	57.56.5198	0,47Ω	10%, 4W	
R5	57.11.4152	33kΩ	5%, 0,25W	
R6	57.11.4155	33kΩ	{	
R7	57.11.4103	10kΩ	{	
R8	57.11.4103	10kΩ	{	
R9	57.11.4162	5,6kΩ	5%, 0,25W	

M = MOTOROLA    G = SIL GENERAL  
 N = NATIONAL  
 T = TEXAS INSTR.  
 S = SAMSUNG  
 ITT = INTERTECH  
 S = SONY

STUDER	DC-DC CONVERTER	1.328.016	PAGE 1 of 2
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POS NO	PART NO	VALUE	SPECIFICATIONS	EQUIVALENT MFR
R10	57.11.4292	2,7kΩ	5%, 0,25W	
R11	57.11.4222	8,2kΩ	{	
R12	57.11.4223	22kΩ	{	
R13	57.11.4290	27Ω	{	
R14	57.11.4479	470Ω	{	
R15	57.11.4492	14kΩ	{	
R16	57.11.4562	5,6kΩ	{	
R17	57.11.4103	10kΩ	{	
R18	57.11.4101	100Ω	{	
XF1	52.03.0442	ø5 x 20mm		ST
XF2	52.03.0742	ø5 x 40mm		ST

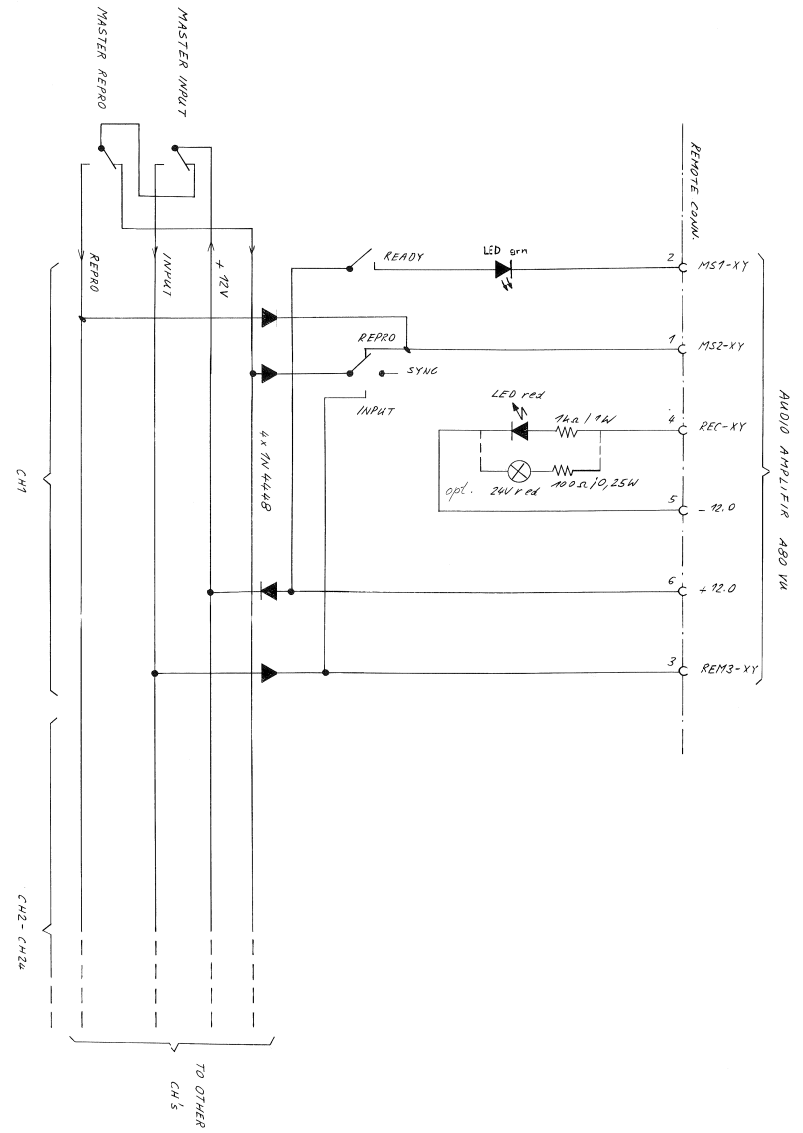
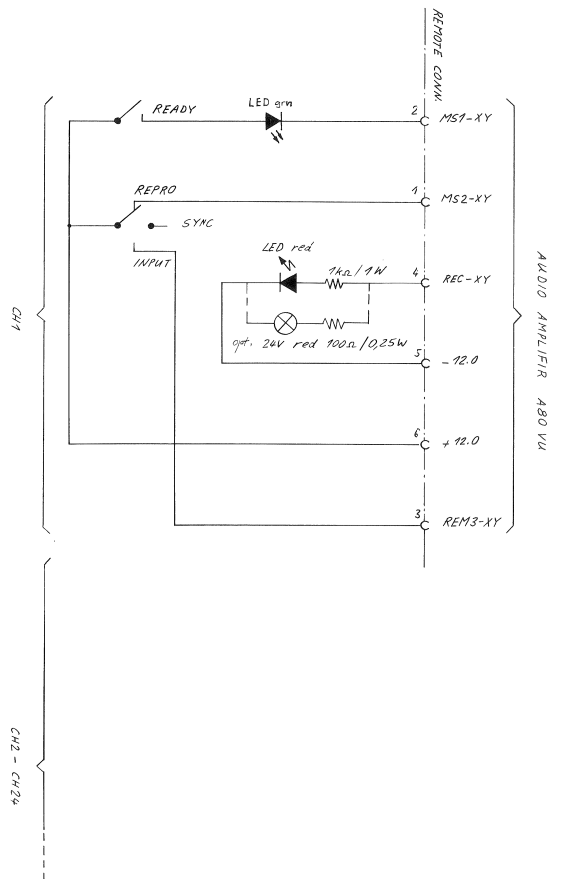
ST - STUDER			
STUDER	DC-DC CONVERTER	1.328.016	PAGE 2 of 2



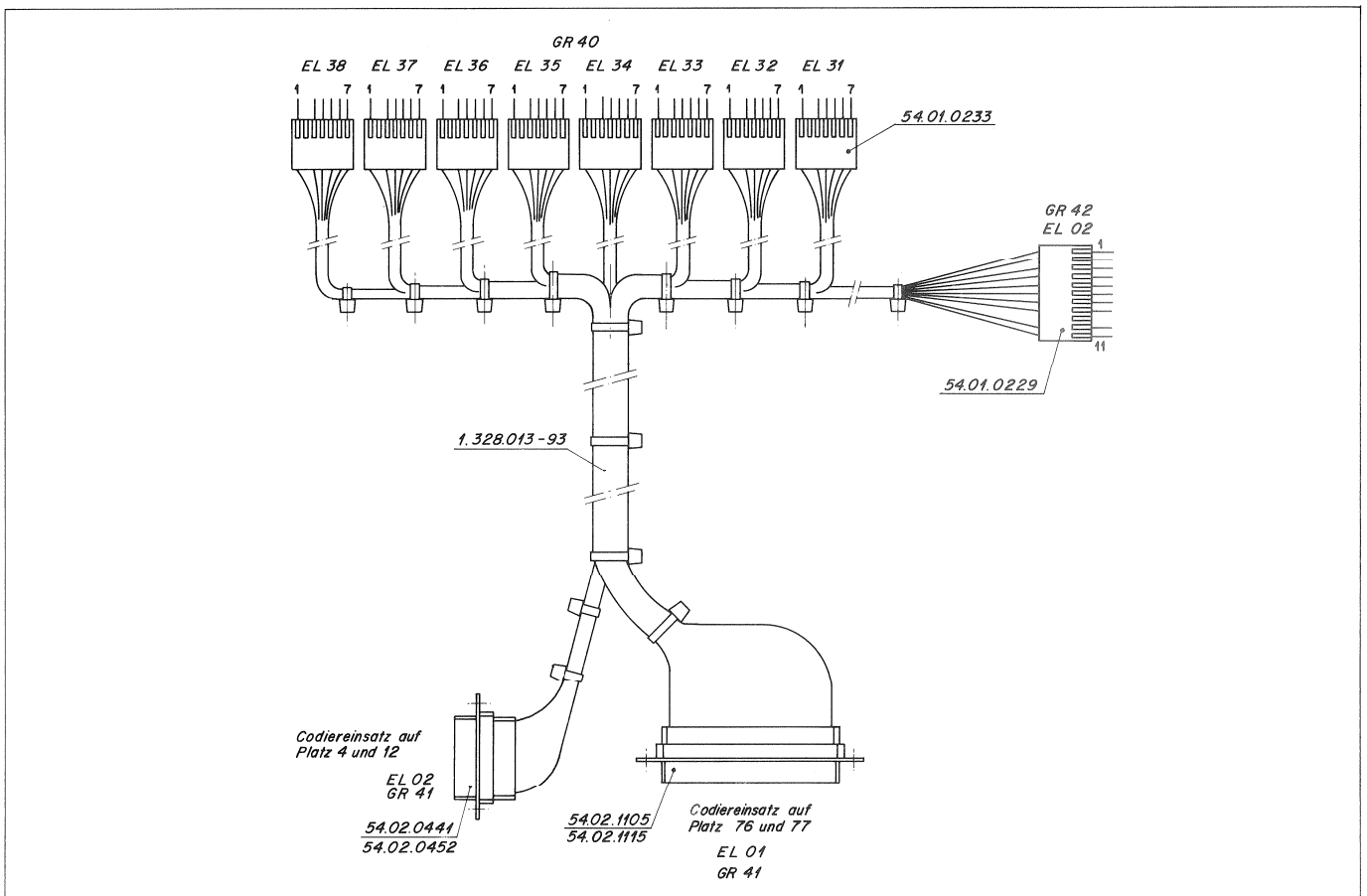


RECOMMENDATION OF AUDIO REMOTE CONTROL

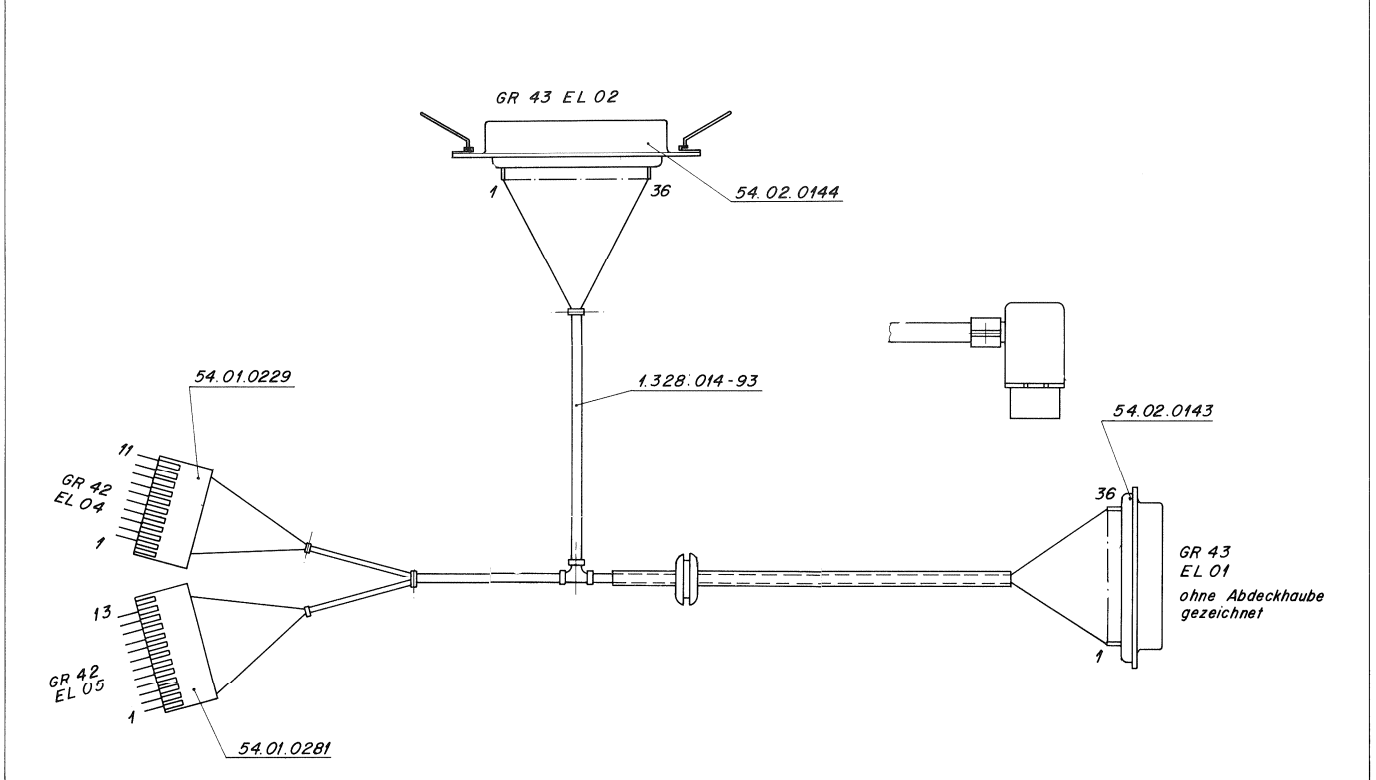
RECOMMENDATION OF AUDIO REMOTE CONTROL (VERSION WITH MASTER CONTROL)



WIRE HARNESS / INTERFACE 8CH 1.328.013



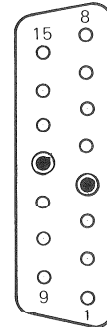
WIRE HARNESS TO TAPE TRANSPORT 1.328.014



## DOLBY CONTROL CONNECTOR CH 1...8/9...16/17...24 GR41 EL02/04/06

GR41 FIELD TO REMOTE CONTROL UNIT  
EL02 DOLBY CONTROL CHANNELS 1...8

PT	SIG.NAME	COLOR
1	B-RCDD-01	red
2	B-RCDD-02	red
3	B-RCDD-03	red
4	KEY	
5	B-RCDD-04	red
6	B-RCDD-05	red
7		
8		
9		
10	B-RCDD-06	red
11	B-RCDD-07	red
12	KEY	
13	B-RCDD-08	red
14	+ 24,0 V	brn
15	+ 0,0 V LOG	blk

GR41 FIELD TO REMOTE CONTROL UNIT  
EL04 DOLBY CONTROL CHANNELS 9...16

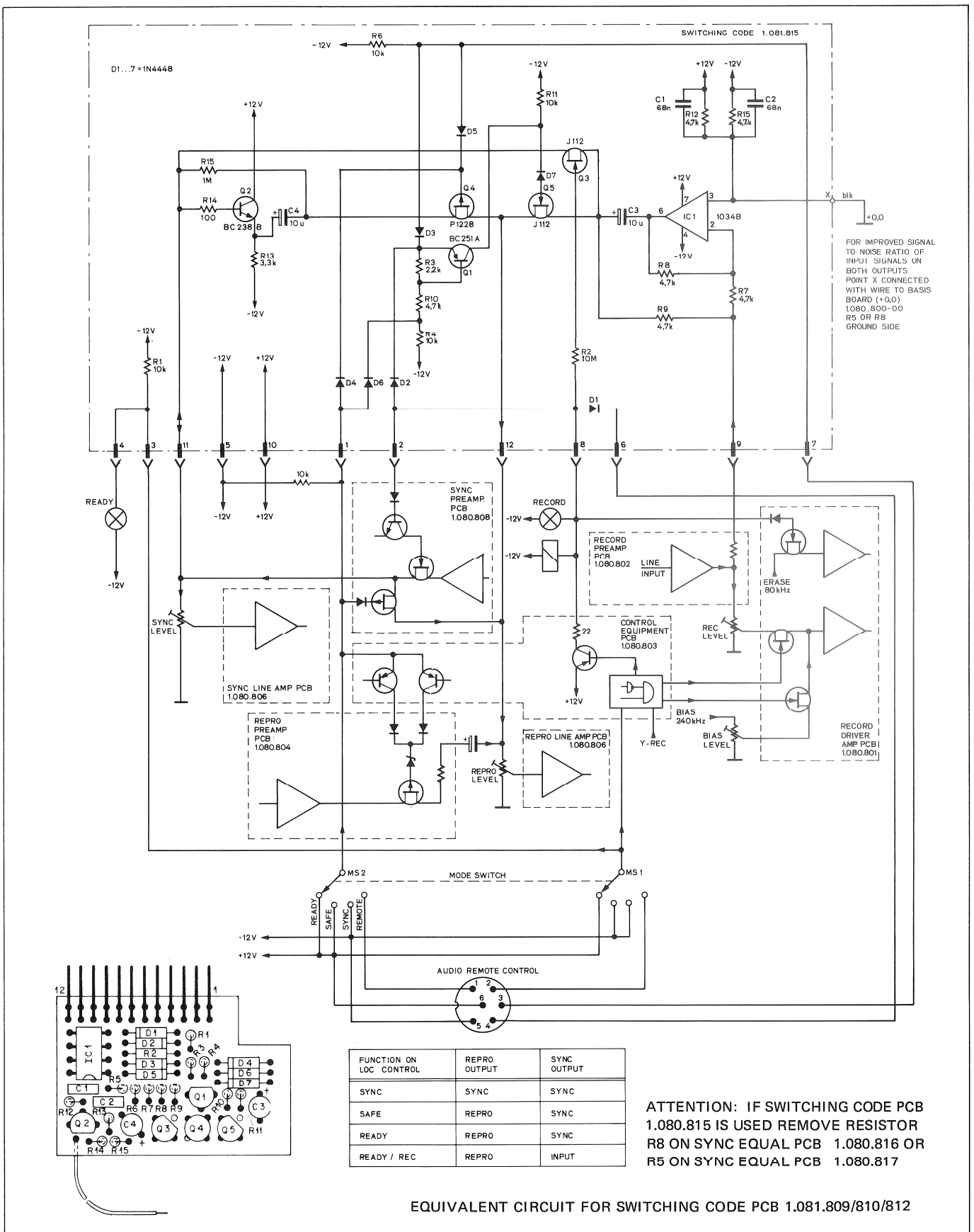
PT	SIG.NAME	COLOR
1	B-RCDD-09	red
2	B-RCDD-10	red
3	B-RCDD-11	red
4	KEY	
5	B-RCDD-12	red
6	B-RCDD-13	red
7		
8		
9		
10	B-RCDD-14	red
11	B-RCDD-15	red
12	KEY	
13	B-RCDD-16	red
14	+ 24,0 V	brn
15	+ 0,0 V LOG	blk

GR41 FIELD TO REMOTE CONTROL UNIT  
EL06 DOLBY CONTROL CHANNELS 17...24

PT	SIG.NAME	COLOR
1	B-RCDD-17	red
2	B-RCDD-18	red
3	B-RCDD-19	red
4	KEY	
5	B-RCDD-20	red
6	B-RCDD-21	red
7		
8		
9		
10	B-RCDD-22	red
11	B-RCDD-23	red
12	KEY	
13	B-RCDD-24	red
14	+ 24,0 V	brn
15	+ 0,0 V LOG	blk

THE RCDDxx SIGNALS ARE OPEN COLLECTOR OUTPUTS (I<sub>max</sub>=0.5A)

SWITCHING CODE 1.081.815 UNDISPENSABLE FOR CORRECT OPERATION OF AUDIO REMOTE CONTROL



SWITCHING CODE 1.081.815 UNDISPENSABLE FOR CORRECT OPERATION OF AUDIO REMOTE CONTROL

POS NO	PART NO	VALUE	SPECIFICATIONS	EQUIVALENT MFR
C 01	59.99.0205	68nF	20% 20V	
C 02	59.99.0205	68nF		
C 03	59.30.6100	10µF		
C 04	59.30.6100	10µF		
201+207	50.04.0125	1N4448		
IC 01	50.05.0243	TDA 1034 B		NE 5534 N 79, 5'
Q 01	50.03.0117	BC 251 A		BC 307A ITTELMP
Q 02	50.03.0438	BC 238 B		BC 548 B SMP
Q 03	50.03.0250	J 112 F		MPF 4292 SK, 16, M
Q 04	50.03.0229	P 1228 E		SPF 316 Tol, M
Q 05	50.03.0250	J 112 F		MPF 4292 SK, 16, M
R 01	57.11.4103	10 kΩ	5% 025W	
R 02	57.02.4106	40 MΩ		
R 03	57.11.4222	2,2kΩ		
R 04	57.11.4103	10kΩ		
R 05	57.11.4477	47kΩ		
R 06	57.11.4103	10kΩ		
R 07	57.11.4472	4,7kΩ		
R 08	57.11.4472	4,7kΩ		
R 09	57.11.4473	4,7kΩ		
R 10	57.11.4472	4,7kΩ		
R 11	57.11.4103	10kΩ		
R 12	57.11.4477	47kΩ		
R 13	57.11.4332	3,3kΩ		
R 14	57.11.4101	100Ω		
R 15	57.11.4105	1MΩ		
Fo = Fairchild      Ni = National Sem. ST = Signetics      SK = Siliconix ITT = International      Tel = Telephone S = Siemens M = Motorola P = Philips			① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿	IND      DATE      NAME 16.11.98      Busslinger
<b>STUDER</b> Switching Board			1.081.815	PAGE 1 of 1



GR: 40 (CONTINUATION)  
 BASIS BOARD  
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EL: 14 CONN.TO AMP.CAB.,CAB.PL.,CH4 P14  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 -12.0 5  
 N 02 0 +12.0 6  
 N 03 0 KEY  
 N 04 0 MS1 -04 2  
 N 05 0 MS2 -04 1  
 N 06 0 REM3 -04 3  
 N 07 0 REC -04 4

EL: 15 CONN.TO AMP.CAB.,CAB.PL.,CH5 P15  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 -12.0 5  
 N 02 0 +12.0 6  
 N 03 0 KEY  
 N 04 0 MS1 -05 2  
 N 05 0 MS2 -05 1  
 N 06 0 REM3 -05 3  
 N 07 0 REC -05 4

EL: 16 CONN.TO AMP.CAB.,CAB.PL.,CH6 P16  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 -12.0 5  
 N 02 0 +12.0 6  
 N 03 0 KEY  
 N 04 0 MS1 -06 2  
 N 05 0 MS2 -06 1  
 N 06 0 REM3 -06 3  
 N 07 0 REC -06 4

EL: 17 CONN.TO AMP.CAB.,CAB.PL.,CH7 P17  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 -12.0 5  
 N 02 0 +12.0 6  
 N 03 0 KEY  
 N 04 0 MS1 -07 2  
 N 05 0 MS2 -07 1  
 N 06 0 REM3 -07 3  
 N 07 0 REC -07 4

EL: 18 CONN.TO AMP.CAB.,CAB.PL.,CH8 P18  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 -12.0 5  
 N 02 0 +12.0 6  
 N 03 0 KEY

GR: 40 (CONTINUATION)  
 BASIS BOARD  
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EL: 18 (CONTINUATION)  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 04 0 MS1 -08 2  
 N 05 0 MS2 -08 1  
 N 06 0 REM3 -08 3  
 N 07 0 REC -08 4

EL: 21 CONN.TO CHANNEL AMP., CH1 J21  
 TYPE PT LV SIG.NAME COLOR F X Y  
 01 0 MS2 -01 1  
 02 0 MS1 -01 2  
 03 0 REM3 -01 3  
 04 0 REC -01 4  
 05 0 -12.0 5  
 06 0 +12.0 6

EL: 22 CONN.TO CHANNEL AMP., CH2 J22  
 TYPE PT LV SIG.NAME COLOR F X Y  
 01 0 MS2 -02 1  
 02 0 MS1 -02 2  
 03 0 REM3 -02 3  
 04 0 REC -02 4  
 05 0 -12.0 5  
 06 0 +12.0 6

EL: 23 CONN.TO CHANNEL AMP., CH3 J23  
 TYPE PT LV SIG.NAME COLOR F X Y  
 01 0 MS2 -03 1  
 02 0 MS1 -03 2  
 03 0 REM3 -03 3  
 04 0 REC -03 4  
 05 0 -12.0 5  
 06 0 +12.0 6

EL: 24 CONN.TO CHANNEL AMP., CH4 J24  
 TYPE PT LV SIG.NAME COLOR F X Y  
 01 0 MS2 -04 1  
 02 0 MS1 -04 2  
 03 0 REM3 -04 3  
 04 0 REC -04 4  
 05 0 -12.0 5  
 06 0 +12.0 6

GR: 40 (CONTINUATION)  
 BASIS BOARD  
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EL: 25 CONN.TO CHANNEL AMP., CH5 J25  
 TYPE PT LV SIG.NAME COLOR F X Y  
 01 0 MS2 -05 1  
 02 0 MS1 -05 2  
 03 0 REM3 -05 3  
 04 0 REC -05 4  
 05 0 -12.0 5  
 06 0 +12.0 6

EL: 26 CONN.TO CHANNEL AMP., CH6 J26  
 TYPE PT LV SIG.NAME COLOR F X Y  
 01 0 MS2 -06 1  
 02 0 MS1 -06 2  
 03 0 REM3 -06 3  
 04 0 REC -06 4  
 05 0 -12.0 5  
 06 0 +12.0 6

EL: 27 CONN.TO CHANNEL AMP., CH7 J27  
 TYPE PT LV SIG.NAME COLOR F X Y  
 01 0 MS2 -07 1  
 02 0 MS1 -07 2  
 03 0 REM3 -07 3  
 04 0 REC -07 4  
 05 0 -12.0 5  
 06 0 +12.0 6

EL: 28 CONN.TO CHANNEL AMP., CH8 J28  
 TYPE PT LV SIG.NAME COLOR F X Y  
 01 0 MS2 -08 1  
 02 0 MS1 -08 2  
 03 0 REM3 -08 3  
 04 0 REC -08 4  
 05 0 -12.0 5  
 06 0 +12.0 6

EL: 31 CONN.TO REM.CONN.,CAB.PL.,CHIP31  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 B-REA-01 4  
 N 02 0 KEY  
 N 03 0 B-RCD-01 5  
 N 04 0 B-RCD001 2  
 N 05 0 B-SYN-01 6  
 N 06 0 S-REA-01 1  
 N 07 0 S-IN -01 3

GR: 40 (CONTINUATION)  
 BASIS BOARD  
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EL: 32 CONN.TO REM.CONN.,CAB.PL.,CH2P32  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 B-REA-02 4  
 N 02 0 KEY  
 N 03 0 B-RCD-02 5  
 N 04 0 B-RCD002 2  
 N 05 0 B-SYN-02 6  
 N 06 0 S-REA-02 1  
 N 07 0 S-IN -02 3

EL: 33 CONN.TO REM.CONN.,CAB.PL.,CH3P33  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 B-REA-03 4  
 N 02 0 KEY  
 N 03 0 B-RCD-03 5  
 N 04 0 B-RCD003 2  
 N 05 0 B-SYN-03 6  
 N 06 0 S-REA-03 1  
 N 07 0 S-IN -03 3

EL: 34 CONN.TO REM.CONN.,CAB.PL.,CH4P34  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 B-REA-04 4  
 N 02 0 KEY  
 N 03 0 B-RCD-04 5  
 N 04 0 B-RCD004 2  
 N 05 0 B-SYN-04 6  
 N 06 0 S-REA-04 1  
 N 07 0 S-IN -04 3

EL: 35 CONN.TO REM.CONN.,CAB.PL.,CH5P35  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 B-REA-05 4  
 N 02 0 KEY  
 N 03 0 B-RCD-05 5  
 N 04 0 B-RCD005 2  
 N 05 0 B-SYN-05 6  
 N 06 0 S-REA-05 1  
 N 07 0 S-IN -05 3

EL: 36 CONN.TO REM.CONN.,CAB.PL.,CH6P36  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 B-REA-06 4  
 N 02 0 KEY  
 N 03 0 B-RCD-06 5

GR: 40 (CONTINUATION)  
 BASIS BOARD  
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EL: 36 (CONTINUATION)  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 04 0 B-RCD006 2  
 N 05 0 B-SYN-06 6  
 N 06 0 S-REA-06 1  
 N 07 0 S-IN -06 3

EL: 37 CONN.TO REM.CONN.,CAB.PL.,CH7P37  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 B-REA-07 4  
 N 02 0 KEY  
 N 03 0 B-RCD-07 5  
 N 04 0 B-RCD007 2  
 N 05 0 B-SYN-07 6  
 N 06 0 S-REA-07 1  
 N 07 0 S-IN -07 3

EL: 38 CONN.TO REM.CONN.,CAB.PL.,CH8P38  
 TYPE PT LV SIG.NAME COLOR F X Y  
 N 01 0 B-REA-08 4  
 N 02 0 KEY  
 N 03 0 B-RCD-08 5  
 N 04 0 B-RCD008 2  
 N 05 0 B-SYN-08 6  
 N 06 0 S-REA-08 1  
 N 07 0 S-IN -08 3

GR: 41 1.328.013.00  
 BASIS BOARD  
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EL: 01 CONN.REM.UNIT,CH1-B,CAB.PL. P01  
 TYPE PT LV SIG.NAME COLOR F X Y  
 R 01 0 S-REA-01 1  
 R 02 0 S-REA-02 1  
 R 03 0 S-REA-03 1  
 R 04 0 S-REA-04 1  
 R 05 0 S-REA-05 1  
 R 06 0 S-REA-06 1  
 R 07 0 S-REA-07 1  
 R 08 0 S-REA-08 1  
 R 09 0  
 R 10 0  
 R 11 0  
 R 12 0  
 R 13 0  
 R 14 0  
 R 15 0  
 R 16 0  
 R 17 0 S-IN -01 3  
 R 18 0 S-IN -02 3  
 R 19 0 S-IN -03 3  
 R 20 0 S-IN -04 3  
 R 21 0 S-IN -05 3  
 R 22 0 S-IN -06 3  
 R 23 0 S-IN -07 3  
 R 24 0 S-IN -08 3  
 R 25 0 B-REA-01 4  
 R 26 0 B-REA-02 4  
 R 27 0 B-REA-03 4  
 R 28 0 B-REA-04 4  
 R 29 0 B-REA-05 4  
 R 30 0 B-REA-06 4  
 R 31 0 B-REA-07 4  
 R 32 0 B-REA-08 4  
 R 33 0 B-RCD-01 5  
 R 34 0 B-RCD-02 5  
 R 35 0 B-RCD-03 5  
 R 36 0 B-RCD-04 5  
 R 37 0 B-RCD-05 5  
 R 38 0 B-RCD-06 5  
 R 39 0 B-RCD-07 5  
 R 40 0 B-RCD-08 5  
 R 41 0 B-SYN-01 6  
 R 42 0 B-SYN-02 6  
 R 43 0 B-SYN-03 6  
 R 44 0 B-SYN-04 6  
 R 45 0 B-SYN-05 6  
 R 46 0 B-SYN-06 6  
 R 47 0 B-SYN-07 6  
 R 48 0 B-SYN-08 6  
 R 49 0  
 R 50 0  
 R 51 0



GR: 41 (CONTINUATION)  
 FIELD TO REMOTE CONTROL UNIT  
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EL: 01 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
R	52	0					
R	53	0					
R	54	0	+5.6LED	3			
R	55	0					
R	56	0	S-REMIN	0			
R	57	0					
R	58	0					
R	59	0					
R	60	0					
R	61	0					
R	62	0					
R	63	0					
R	64	0					
R	65	0					
R	66	0					
R	67	0					
R	68	0					
R	69	0					
R	70	0	S-MUTE	3			
R	71	0	S-REPMR	2			
R	72	0					
R	73	0	S-INMR	1			
R	74	0	S-AUTOIN	6			
R	75	0	S-SAFE	9			
R	76	0	KEY				
R	77	0	KEY				
R	78	0	S-GROUPS	8			

EL: 02 CONN.NOISE RED., CH1-8, CAB.PL. P02

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
B	01	0	B-RCDD01	2			
B	02	0	B-RCDD02	2			
B	03	0	B-RCDD03	2			
B	04	0	KEY				
B	05	0	B-RCDD04	2			
B	06	0	B-RCDD05	2			
B	07	0					
B	08	0					
B	09	0					
B	10	0	B-RCDD06	2			
B	11	0	B-RCDD07	2			
B	12	0	KEY				
B	13	0	B-RCDD08	2			
B	14	0	+24.0	1			
B	15	0	+0.0LOG	0			

GR: 42 1.328.008.00  
 REMOTE ELECTR. BOARD  
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EL: 01 CONN.TO BASIS BOARD, CAB.PL. P01

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	S-SAFE	9			
N	02	0	B-REC	5			
N	03	0	+0.0LOG	0			
N	04	0	+5.0LS	2			
N	05	0	Y-GROUPS	8			
N	06	0	Y-REPMR	1			
N	07	0	Y-REMIN	4			
N	08	0	Y-REHEAR	6			
N	09	0	Y-INPUT	3			
N	10	0	KEY				

EL: 02 CONN.TO REM.CONNECTION, CAB.PL. P02

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	S-SAFE	9			
N	02	0	S-MUTE	3			
N	03	0	S-REPMR	2			
N	04	0	S-AUTOIN	6			
N	05	0	S-INMR	1			
N	06	0	+24.0	1			
N	07	0	S-GROUPS	8			
N	08	0	S-REMIN	4			
N	09	0	KEY				
N	10	0	+0.0LOG	0			
N	11	0	+5.6LED	3			

EL: 03 REHEARSAL UNIT, CAB.PL. P03

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	+0.0LOG	0			
N	02	0	S-REHEAR	6			
N	03	0	KEY				

EL: 04 TAPE DECK CONNECTION, CAB.PL. APO4

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	KEY				
N	02	0	B-CUT	6			
N	03	0	B-CUT	6			
N	04	0	S-CUT	6			
N	05	0	S-CUT	6			
N	06	0	B-STOP	1			
N	07	0	B-STOP	1			
N	08	0	YPS-MOVE	7			
N	09	0	YPS-MOVE	7			
N	10	0	S-HIGH	4			
N	11	0	S-HIGH	4			

GR: 42 (CONTINUATION)  
 REMOTE ELECTR. BOARD  
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EL: 05 TAPE DECK CONNECTION, CAB.PL. BPO5

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	-5.8	6			
N	02	0	-5.8	6			
N	03	0	+0.0	0			
N	04	0	+0.0	0			
N	05	0	+24.0	2			
N	06	0	+24.0	2			
N	07	0	S-REC	5			
N	08	0	S-REC	5			
N	09	0	B-REC	5			
N	10	0	B-REC	5			
N	11	0	B-REPR	4			
N	12	0	B-REPR	4			
N	13	0	KEY				

EL: 06 CONN.TO DC-DC CONV., CAB.PL. P06

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
N	01	0	+5.6LED	3			
N	02	0	+5.6LED	3			
N	03	0	+5.0LS	2			
N	04	0	+0.0LOG	0			
N	05	0	+0.0LOG	0			
N	06	0	+0.0	0			
N	07	0	+0.0	0			
N	08	0	+24.0	1			

GR: 43 1.328.014.00  
 FIELD TO INTERFACE UNIT  
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EL: 01 REM. MODE CONTR.CONN. J01

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
R	01	0	B-INDIC	9			
R	02	0	B-REW	2			
R	03	0	B-FDRW	3			
R	04	0	B-REPR	4			
R	05	0	B-STOP	1			
R	06	0	B-REC	5			
R	07	0	B-CUT	6			
R	08	0	B-MOND	3			
R	09	0	YPS-MOVE	7			
R	10	0	B-FAD	1			
R	11	0	FAD-1	8			
R	12	0	+24.0	2			
R	13	0	RES1	3			
R	14	0	RES2	4			
R	15	0	-5.8	6			
R	16	0	M4-2	4			
R	17	0	M4-4	6			
R	18	0	+24.0	2			
R	19	0	REM-IN	7			
R	20	0	S-REW	2			
R	21	0	S-FORW	3			
R	22	0	S-REPR	4			
R	23	0	S-STOP	1			
R	24	0	S-REC	5			
R	25	0	S-CUT	6			
R	26	0	S-MOND	1			
R	27	0	S-HIGH	4			
R	28	0	REM-OUT	8			
R	29	0	FAD-2	9			
R	30	0	+0.0	0			
R	31	0	+0-TYPE	1			
R	32	0	RES3	2			
R	33	0	K-RESET	1			
R	34	0	M4-1	3			
R	35	0	M4-3	5			
R	36	0	+0.0	0			

GR: 44 1.328.002.00  
 REMOTE UNIT  
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EL: 01 REMOTE CONN., CH1-8, CAB.PL. P01

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
R	01	0	S-REA-01	1			
R	02	0	S-REA-02	1			
R	03	0	S-REA-03	1			
R	04	0	S-REA-04	1			
R	05	0	S-REA-05	1			
R	06	0	S-REA-06	1			
R	07	0	S-REA-07	1			
R	08	0	S-REA-08	1			
R	09	0					
R	10	0					
R	11	0					
R	12	0					
R	13	0					
R	14	0					
R	15	0					
R	16	0					
R	17	0	S-IN -01	3			
R	18	0	S-IN -02	3			
R	19	0	S-IN -03	3			
R	20	0	S-IN -04	3			
R	21	0	S-IN -05	3			
R	22	0	S-IN -06	3			
R	23	0	S-IN -07	3			
R	24	0	S-IN -08	3			
R	25	0	B-REA-01	4			
R	26	0	B-REA-02	4			
R	27	0	B-REA-03	4			
R	28	0	B-REA-04	4			
R	29	0	B-REA-05	4			
R	30	0	B-REA-06	4			
R	31	0	B-REA-07	4			
R	32	0	B-REA-08	4			
R	33	0	B-RCD-01	5			
R	34	0	B-RCD-02	5			
R	35	0	B-RCD-03	5			
R	36	0	B-RCD-04	5			
R	37	0	B-RCD-05	5			
R	38	0	B-RCD-06	5			
R	39	0	B-RCD-07	5			
R	40	0	B-RCD-08	5			
R	41	0	B-SYN-01	6			
R	42	0	B-SYN-02	6			
R	43	0	B-SYN-03	6			
R	44	0	B-SYN-04	6			
R	45	0	B-SYN-05	6			
R	46	0	B-SYN-06	6			
R	47	0	B-SYN-07	6			
R	48	0	B-SYN-08	6			
R	49	0					
R	50	0					
R	51	0					

GR: 44 (CONTINUATION)  
 REMOTE UNIT  
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EL: 01 (CONTINUATION)

TYPE	PT	LV	SIG.NAME	COLOR	F	X	Y
R	52	0					
R	53	0					
R	54	0	+5.6LED	3			
R	55	0					
R	56	0	S-REMIN	0			
R	57	0					
R	58	0					
R	59	0					
R	60	0					
R	61	0					
R	62	0					
R	63	0					
R	64	0					
R	65	0					
R	66	0					
R	67	0					
R	68	0					
R	69	0					
R	70	0	S-MUTE	3			
R	71	0	S-REPMR	2			
R	72	0					
R	73	0</					



SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT	SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT
(CONT.)	5	R	41	01	36		CONN.REM.UNIT,CHI-8,CAB.PL. P01	(CONT.)	4	R	41	01	28		CONN.REM.UNIT,CHI-8,CAB.PL. P01
	5	R	44	01	36		REMOTE CONN., CHI-8, CAB.PL. P01		4	R	44	01	28		REMOTE CONN., CHI-8, CAB.PL. P01
B-RCD-05	5	N	40	35	03		CONN.TO REM.CONN.,CAB.PL.,CH5P35	B-REA-05	4	N	40	35	01		CONN.TO REM.CONN.,CAB.PL.,CH5P35
	5	R	41	01	37		CONN.REM.UNIT,CHI-8,CAB.PL. P01		4	R	41	01	29		CONN.REM.UNIT,CHI-8,CAB.PL. P01
	5	R	44	01	37		REMOTE CONN., CHI-8, CAB.PL. P01		4	R	44	01	29		REMOTE CONN., CHI-8, CAB.PL. P01
B-RCD-06	5	N	40	36	03		CONN.TO REM.CONN.,CAB.PL.,CH6P36	B-REA-06	4	N	40	36	01		CONN.TO REM.CONN.,CAB.PL.,CH6P36
	5	R	41	01	38		CONN.REM.UNIT,CHI-8,CAB.PL. P01		4	R	41	01	30		CONN.REM.UNIT,CHI-8,CAB.PL. P01
	5	R	44	01	38		REMOTE CONN., CHI-8, CAB.PL. P01		4	R	44	01	30		REMOTE CONN., CHI-8, CAB.PL. P01
B-RCD-07	5	N	40	37	03		CONN.TO REM.CONN.,CAB.PL.,CH7P37	B-REA-07	4	N	40	37	01		CONN.TO REM.CONN.,CAB.PL.,CH7P37
	5	R	41	01	39		CONN.REM.UNIT,CHI-8,CAB.PL. P01		4	R	41	01	31		CONN.REM.UNIT,CHI-8,CAB.PL. P01
	5	R	44	01	39		REMOTE CONN., CHI-8, CAB.PL. P01		4	R	44	01	31		REMOTE CONN., CHI-8, CAB.PL. P01
B-RCD-08	5	N	40	38	03		CONN.TO REM.CONN.,CAB.PL.,CH8P38	B-REA-08	4	N	40	38	01		CONN.TO REM.CONN.,CAB.PL.,CH8P38
	5	R	41	01	40		CONN.REM.UNIT,CHI-8,CAB.PL. P01		4	R	41	01	32		CONN.REM.UNIT,CHI-8,CAB.PL. P01
	5	R	44	01	40		REMOTE CONN., CHI-8, CAB.PL. P01		4	R	44	01	32		REMOTE CONN., CHI-8, CAB.PL. P01
B-RCD001	2	N	40	31	04		CONN.TO REM.CONN.,CAB.PL.,CH1P31	B-REC			40	01	02		CHANNEL BOARD CONN., CH1 J01
	2	B	41	02	01		CONN.NOISE RED.,CHI-8,CAB.PL.P02				40	02	02		CHANNEL BOARD CONN., CH2 J02
B-RCD002	2	N	40	32	04		CONN.TO REM.CONN.,CAB.PL.,CH2P32				40	03	02		CHANNEL BOARD CONN., CH3 J03
	2	B	41	02	02		CONN.NOISE RED.,CHI-8,CAB.PL.P02				40	04	02		CHANNEL BOARD CONN., CH4 J04
B-RCD003	2	N	40	33	04		CONN.TO REM.CONN.,CAB.PL.,CH3P33				40	05	02		CHANNEL BOARD CONN., CH5 J05
	2	B	41	02	03		CONN.NOISE RED.,CHI-8,CAB.PL.P02				40	06	02		CHANNEL BOARD CONN., CH6 J06
B-RCD004	2	N	40	34	04		CONN.TO REM.CONN.,CAB.PL.,CH4P34		5	N	42	01	02		CHANNEL BOARD CONN., CH7 J07
	2	B	41	02	05		CONN.NOISE RED.,CHI-8,CAB.PL.P02		5	N	42	05	09		CHANNEL BOARD CONN., CH8 J08
B-RCD005	2	N	40	35	04		CONN.TO REM.CONN.,CAB.PL.,CH5P35		5	N	42	05	10		CONN.TO BASIS BOARD, CAB.PL. P01
	2	B	41	02	06		CONN.NOISE RED.,CHI-8,CAB.PL.P02	B-REPR	4	N	42	05	11		TAPE DECK CONNECTION,CAB.PL.BP05
B-RCD006	2	N	40	36	04		CONN.TO REM.CONN.,CAB.PL.,CH6P36		4	N	42	05	12		TAPE DECK CONNECTION,CAB.PL.BP05
	2	B	41	02	10		CONN.NOISE RED.,CHI-8,CAB.PL.P02		4	N	43	01	04		REM. MODE CONTR.CONN. J01
B-RCD007	2	N	40	37	04		CONN.TO REM.CONN.,CAB.PL.,CH7P37	B-REW	2		43	01	02		REM. MODE CONTR.CONN. J01
	2	B	41	02	11		CONN.NOISE RED.,CHI-8,CAB.PL.P02	B-STOP	1	N	42	04	06		TAPE DECK CONNECTION,CAB.PL.AP04
B-RCD008	2	N	40	38	04		CONN.TO REM.CONN.,CAB.PL.,CH8P38		1	N	42	04	07		TAPE DECK CONNECTION,CAB.PL.AP04
	2	B	41	02	13		CONN.NOISE RED.,CHI-8,CAB.PL.P02		1	N	43	01	05		REM. MODE CONTR.CONN. J01
B-REA-01	4	N	40	31	01		CONN.TO REM.CONN.,CAB.PL.,CH1P31	B-SYN-01	6	N	40	31	05		CONN.TO REM.CONN.,CAB.PL.,CH1P31
	4	R	41	01	25		CONN.REM.UNIT,CHI-8,CAB.PL. P01		6	R	41	01	41		CONN.REM.UNIT,CHI-8,CAB.PL. P01
	4	R	44	01	25		REMOTE CONN., CHI-8, CAB.PL. P01		6	R	44	01	41		REMOTE CONN., CHI-8, CAB.PL. P01
B-REA-02	4	N	40	32	01		CONN.TO REM.CONN.,CAB.PL.,CH2P32	B-SYN-02	6	N	40	32	05		CONN.TO REM.CONN.,CAB.PL.,CH2P32
	4	R	41	01	20		CONN.REM.UNIT,CHI-8,CAB.PL. P01		6	R	41	01	42		CONN.REM.UNIT,CHI-8,CAB.PL. P01
	4	R	44	01	26		REMOTE CONN., CHI-8, CAB.PL. P01		6	R	44	01	42		REMOTE CONN., CHI-8, CAB.PL. P01
B-REA-03	4	N	40	33	01		CONN.TO REM.CONN.,CAB.PL.,CH3P33	B-SYN-03	6	N	40	33	05		CONN.TO REM.CONN.,CAB.PL.,CH3P33
	4	R	41	01	27		CONN.REM.UNIT,CHI-8,CAB.PL. P01		6	R	41	01	43		CONN.REM.UNIT,CHI-8,CAB.PL. P01
	4	R	44	01	27		REMOTE CONN., CHI-8, CAB.PL. P01		6	R	44	01	43		REMOTE CONN., CHI-8, CAB.PL. P01
B-REA-04	4	N	40	34	01		CONN.TO REM.CONN.,CAB.PL.,CH4P34	B-SYN-04	6	N	40	34	05		CONN.TO REM.CONN.,CAB.PL.,CH4P34
							/./.		6	R	41	01	44		CONN.REM.UNIT,CHI-8,CAB.PL. P01

SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT	SIG.NAME	COLOR	TYPE	GR	EL	PT	S	DESCRIPTION OF ELEMENT
(CONT.)	6	R	44	01	44		REMOTE CONN., CHI-8, CAB.PL. P01	MS2 -04	1	N	40	14	05		CONN.TO AMP.CAB.,CAB.PL.,CH4 P14
B-SYN-05	6	N	40	35	05		CONN.TO REM.CONN.,CAB.PL.,CH5P35		1	N	40	24	01		CONN.TO CHANNEL AMP., CH4 J24
	6	R	41	01	45		CONN.REM.UNIT,CHI-8,CAB.PL. P01	MS2 -05	1	N	40	15	05		CONN.TO AMP.CAB.,CAB.PL.,CH5 P15
	6	R	44	01	45		REMOTE CONN., CHI-8, CAB.PL. P01		1	N	40	25	01		CONN.TO CHANNEL AMP., CH5 J25
B-SYN-06	6	N	40	36	05		CONN.TO REM.CONN.,CAB.PL.,CH6P36	MS2 -06	1	N	40	16	05		CONN.TO AMP.CAB.,CAB.PL.,CH6 P16
	6	R	41	01	46		CONN.REM.UNIT,CHI-8,CAB.PL. P01		1	N	40	26	01		CONN.TO CHANNEL AMP., CH6 J26
	6	R	44	01	46		REMOTE CONN., CHI-8, CAB.PL. P01	MS2 -07	1	N	40	17	05		CONN.TO AMP.CAB.,CAB.PL.,CH7 P17
B-SYN-07	6	N	40	37	05		CONN.TO REM.CONN.,CAB.PL.,CH7P37		1	N	40	27	01		CONN.TO CHANNEL AMP., CH7 J27
	6	R	41	01	47		CONN.REM.UNIT,CHI-8,CAB.PL. P01	MS2 -08	1	N	40	18	05		CONN.TO AMP.CAB.,CAB.PL.,CH8 P18
	6	R	44	01	47		REMOTE CONN., CHI-8, CAB.PL. P01		1	N	40	28	01		CONN.TO CHANNEL AMP., CH8 J28
B-SYN-08	6	N	40	38	05		CONN.TO REM.CONN.,CAB.PL.,CH8P38	M4-1	3		43	01	34		REM. MODE CONTR.CONN. J01
	6	R	41	01	48		CONN.REM.UNIT,CHI-8,CAB.PL. P01	M4-2	4		43	01	16		REM. MODE CONTR.CONN. J01
	6	R	44	01	48		REMOTE CONN., CHI-8, CAB.PL. P01	M4-3	5		43	01	35		REM. MODE CONTR.CONN. J01
FAD-1	8		43	01	11		REM. MODE CONTR.CONN. J01	M4-4	6		43	01	17		REM. MODE CONTR.CONN. J01
FAD-2	9		43	01	29		REM. MODE CONTR.CONN. J01	REC -01	4	N	40	11	07		CONN.TO AMP.CAB.,CAB.PL.,CH1 P11
K-RESET	1		43	01	33		REM. MODE CONTR.CONN. J01		4	N	40	21	04		CONN.TO CHANNEL AMP., CH1 J21
MS1 -01	2	N	40	11	04		CONN.TO AMP.CAB.,CAB.PL.,CH1 P11	REC -02	4	N	40	12	07		CONN.TO AMP.CAB.,CAB.PL.,CH2 P12
	2	N	40	21	02		CONN.TO CHANNEL AMP., CH1 J21		4	N	40	22	04		CONN.TO CHANNEL AMP., CH2 J22
MS1 -02	2	N	40	12	04		CONN.TO AMP.CAB.,CAB.PL.,CH2 P12	REC -03	4	N	40	13	07		CONN.TO AMP.CAB.,CAB.PL.,CH3 P13
	2	N	40	22	02		CONN.TO CHANNEL AMP., CH2 J22		4	N	40	23	04		CONN.TO CHANNEL AMP., CH3 J23
MS1 -03	2	N	40	13	04		CONN.TO AMP.CAB.,CAB.PL.,CH3 P13	REC -04	4	N	40	14	07		CONN.TO AMP.CAB.,CAB.PL.,CH4 P14
	2	N	40	23	02		CONN.TO CHANNEL AMP., CH3 J23		4	N	40	24	04		CONN.TO CHANNEL AMP., CH4 J24
MS1 -04	2	N	40	14	04		CONN.TO AMP.CAB.,CAB.PL.,CH4 P14	REC -05	4	N	40	15	07		CONN.TO AMP.CAB.,CAB.PL.,CH5 P15
	2	N	40	24	02		CONN.TO CHANNEL AMP., CH4 J24		4	N	40	25	04		CONN.TO CHANNEL AMP., CH5 J25
MS1 -05	2	N	40	15	04		CONN.TO AMP.CAB.,CAB.PL.,CH5 P15	REC -06	4	N	40	16	07		CONN.TO AMP.CAB.,CAB.PL.,CH6 P16
	2	N	40	25	02		CONN.TO CHANNEL AMP., CH5 J25		4	N	40	26	04		CONN.TO CHANNEL AMP., CH6 J26
MS1 -06	2	N	40	16	04		CONN.TO AMP.CAB.,CAB.PL.,CH6 P16	REC -07	4	N	40	17	07		CONN.TO AMP.CAB.,CAB.PL.,CH7 P17
	2	N	40	26	02		CONN.TO CHANNEL AMP., CH6 J26		4	N	40	27	04		CONN.TO CHANNEL AMP., CH7 J27
MS1 -07	2	N	40	17	04		CONN.TO AMP.CAB.,CAB.PL.,CH7 P17	REC -08	4	N	40	18	07		CONN.TO AMP.CAB.,CAB.PL.,CH8 P18
	2	N	40	27	02		CONN.TO CHANNEL AMP., CH7 J27		4	N	40	28	04		CONN.TO CHANNEL AMP., CH8 J28
MS1 -08	2	N	40	18	04		CONN.TO AMP.CAB.,CAB.PL.,CH8 P18	REM-IN	7		43	01	19		REM. MODE CONTR.CONN. J01
	2	N	40	28	02		CONN.TO CHANNEL AMP., CH8 J28	REM-OUT	8		43	01	28		REM. MODE CONTR.CONN. J01
MS2 -01	1	N	40	11	05		CONN.TO AMP.CAB.,CAB.PL.,CH1 P11	REM3 -01	3	N	40	11	06		CONN.TO AMP.CAB.,CAB.PL.,CH1 P11
	1	N	40	21	01		CONN.TO CHANNEL AMP., CH1 J21		3	N	40	21	03		CONN.TO CHANNEL AMP., CH1 J21
MS2 -02	1	N	40	12	05		CONN.TO AMP.CAB.,CAB.PL.,CH2 P12	REM3 -02	3	N	40	12	06		CONN.TO AMP.CAB.,CAB.PL.,CH2 P12
	1	N	40	22	01		CONN.TO CHANNEL AMP., CH2 J22		3	N	40	22	03		CONN.TO CHANNEL AMP., CH2 J22
MS2 -03	1	N	40	13	05		CONN.TO AMP.CAB.,CAB.PL.,CH3 P13								
	1	N	40	23	01		CONN.TO CHANNEL AMP., CH3 J23								

